

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: July 27, 2005, 14:35:07 ; Search time 25 Seconds  
(without alignments)  
1334.725 Million cell updates/sec

Title: US-09-596-958A-2

Perfect score: 2310

Sequence: 1 MSILTLNNTSSPGLFQSG.....LGDVNHKVPMSANLKVAE 447

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA:\*  
1: /cgn2\_6/ptodata/1/iaa/5A\_COMB.pep.\*  
2: /cgn2\_6/ptodata/1/iaa/5B\_COMB.pep.\*  
3: /cgn2\_6/ptodata/1/iaa/6A\_COMB.pep.\*  
4: /cgn2\_6/ptodata/1/iaa/6B\_COMB.pep.\*  
5: /cgn2\_6/ptodata/1/iaa/PCTUS\_COMB.pep.\*  
6: /cgn2\_6/ptodata/1/iaa/backfiles.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2310	100.0	447	3	US-09-120-927-2
2	2310	100.0	447	4	US-09-431-614-6
3	559	24.2	424	3	US-09-120-817-2
4	559	24.2	424	4	US-09-431-614-14
5	359.5	15.6	197	3	US-09-402-668-2
6	341	14.8	221	3	US-09-198-956-4
7	341	14.8	221	4	US-09-670-141-4
8	190.5	8.2	62	3	US-09-402-668-10
9	181.5	7.9	2411	3	US-09-288-347-36
10	174	7.5	2042	4	US-09-077-098A-6
11	165.5	7.2	344	1	US-08-891-254-7
12	165.5	7.2	344	2	US-08-819-539-7
13	165.5	7.2	344	2	US-09-030-270A-7
14	165.5	7.2	344	3	US-08-984-207-7
15	165.5	7.2	344	3	US-09-013-587-7
16	165.5	7.2	344	4	US-09-086-118-27
17	165.5	7.2	344	4	US-09-431-614-15
18	165.5	7.2	344	5	PCT-US96-08819-7
19	160.5	6.9	907	2	US-09-010-928B-4
20	157.5	6.8	2870	4	US-09-479-467A-15
21	157.5	6.8	3178	4	US-08-479-467A-4
22	156.5	6.8	1912	1	US-08-409-995-4
23	156.5	6.8	1912	3	US-08-685-467-4
24	156	6.8	2039	4	US-09-077-098A-7
25	155.5	6.7	2353	3	US-09-377-155-33
26	155.5	6.7	2353	3	US-08-913-942-4
27	155.5	6.7	2353	3	US-09-669-974-33

28 155.5 6.7 2353 4 US-09-797-862-33 Sequence 33, Appli  
29 155.5 6.7 2353 4 US-09-684-707-4 Sequence 4, Appli  
30 155.5 6.7 2353 4 US-09-268-347-47 Sequence 47, Appli  
31 155 6.7 385 5 PCT-US93-06243-2 Sequence 2, Appli  
32 155 6.7 495 2 US-08-794-795-2 Sequence 2, Appli  
33 155 6.7 495 3 US-09-249-200-2 Sequence 2, Appli  
34 154.5 6.7 975 4 US-09-328-352-4764 Sequence 4764, Ap  
35 154 6.7 571 3 US-09-134-001C-3855 Sequence 3855, Ap  
36 151 6.5 385 1 US-08-891-254-3 Sequence 3, Appli  
37 151 6.5 385 2 US-08-819-539-3 Sequence 3, Appli  
38 151 6.5 385 5 PCT-US96-08819-3 Sequence 3, Appli  
39 151 6.5 403 2 US-08-200-724A-2 Sequence 2, Appli  
40 151 6.5 403 2 US-09-030-270A-3 Sequence 2, Appli  
41 151 6.5 403 3 US-08-851-376A-2 Sequence 3, Appli  
42 151 6.5 403 3 US-08-984-207-3 Sequence 3, Appli  
43 151 6.5 403 3 US-09-013-587-3 Sequence 3, Appli  
44 151 6.5 403 4 US-09-086-118-23 Sequence 23, Appli  
45 151 6.5 403 4 US-09-431-614-3 Sequence 3, Appli

#### ALIGNMENTS

RESULT 1  
US-09-120-927-2  
; Sequence 2, Application US/09120927  
; Patent No. 6262018  
; GENERAL INFORMATION:  
; APPLICANT: Kim, Jihyun Francis  
; APPLICANT: Beer, Steven V.  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FROM  
; TITLE OF INVENTION: ERWINIA AMYLOVORA AND ITS USE  
; NUMBER OF SEQUENCES: 3  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
; STREET: P. O. Box 1051, Clinton Square  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/120,927  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/055,108  
; FILING DATE: 06-AUG-1977  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 19603/1581  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 447 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-09-120-927-2

Query Match 100.0%; Score 2310; DB 3; Length 447;  
Best Local Similarity 100.0%; Pred. No. 6.3e-175;  
Matches 447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MSILTLNNTSSPGLFQSGDNLGHNANSALGQQPIDRQTIEQMAQLLELLSLLS 60



Db 123 -TPSADS-----GGGG-----TPDATGGGG-GDTP-----SATGGG 151  
Qy 154 GTGNNASSTSSGGSPFNLDSCGKAPSGNSGNSPVSTSPSTPTSPSTPLDFFS 213  
Db 152 GGDTPATGGGGGGGTPATGGG---SGGTPATGGGGGVTPTITPOL-----A 200  
Qy 214 SPTKAAGGSTPVDHDPVGSAGIGAGNSVAFSTAGANOTVLHDTITVKAGQVFDGKGOT 273  
Db 201 NPNRTSG-----TGSVSDTAGS-----TEQAGKINNVKDTIKVGAGEVFDGHGAT 245  
Qy 274 FTAGSELGCGQGENOKPLFILEDGLASLKNVTWGGDGDGDIHLVG---DAKIDNLHVTN 329  
Db 246 FTADKSMNGDQGENOKPMFELAGATLKNVNLGENEVDGIHVAKNAQEVTTIDNHAQN 305  
Qy 330 VGEDAITVKPNSAGKSHVEITNSSFEHASDKILOLNADTNLSVDNVKAKDFCTFVRTNG 389  
Db 306 VGEDLITVKEGGAAVTNLNKNSSAKGADDKVQVLNANTHLKIDNFKADDFCTGTVRTNG 365  
Qy 390 GQO-GNWDNLNLSHISAEKGFSPVKSDEGLNVTSDISLGDVENHY 435  
Db 366 GKQFDDMSIELNGIEANHGKFAVKSDDDLKATGNIAMTVDVKHAY 412

## RESULT 4

US-09-431-614-14  
; Sequence 14, Application US/09431614  
; Patent No. 6624139  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Schading, Richard L.  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR-INDUCED STRESS  
; TITLE OF INVENTION: RESISTANCE  
; FILE REFERENCE: 21829/41 (BBC-003)  
; CURRENT APPLICATION NUMBER: US/09/431,614  
; CURRENT FILING DATE: 1999-11-02  
; EARLIER APPLICATION NUMBER: 60/107,243  
; EARLIER FILING DATE: 1998-11-05  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 14  
; LENGTH: 424  
; TYPE: PRT  
; ORGANISM: Pseudomonas syringae  
US-09-431-614-14

Query Match 24.1%; Score 559; DB 4; Length 424;  
Best Local Similarity 36.1%; Pred. No. 3.2e-36;  
Matches 147; Conservative 54; Mismatches 132; Indels 74; Gaps 13;  
Qy 37 QPIDRQTEOMAQLLAELKSL---LSPQSGNAATGAGGNDQTTGVGNAGLNGRKGATG 93  
Db 72 KPNDQS--NIAKLISALIMSLQLMLTNSNKKQDTNQEQPDSQAPFQNNGGLG----- 122  
Qy 94 TTPQSDSONLSENGNGLDQAITPDQCGGQIGDNPLLKAMKLLARMDGSDQFGQP 153  
Db 123 -TPSADS-----GGGG-----TPDATGGG-GDTP-----SATGGG 151  
Qy 154 GTGNNASSTSSGGSPFNLDSCGKAPSGNSGNSPVSTSPSTPTSPSTPLDFFS 213  
Db 152 GGDTPATGGGGGGGTPATGGG---SGGTPATGGGGGVTPTITPOL-----A 200  
Qy 214 SPTKAAGGSTPVDHDPVGSAGIGAGNSVAFSTAGANOTVLHDTITVKAGQVFDGKGOT 273  
Db 201 NPNRTSG-----TGSVSDTAGS-----TEQAGKINNVKDTIKVGAGEVFDGHGAT 245  
Qy 274 FTAGSELGCGQGENOKPLFILEDGLASLKNVTWGGDGDGDIHLVG---DAKIDNLHVTN 329  
Db 246 FTADKSMNGDQGENOKPMFELAGATLKNVNLGENEVDGIHVAKNAQEVTTIDNHAQN 305  
Qy 330 VGEDAITVKPNSAGKSHVEITNSSFEHASDKILOLNADTNLSVDNVKAKDFCTFVRTNG 389  
Db 306 VGEDLITVKEGGAAVTNLNKNSSAKGADDKVQVLNANTHLKIDNFKADDFCTGTVRTNG 365

Qy 390 GQO-GNWDNLNLSHISAEKGFSPVKSDEGLNVTSDISLGDVENHY 435  
Db 366 GKQFDDMSIELNGIEANHGKFAVKSDDDLKATGNIAMTVDVKHAY 412

## RESULT 5

US-09-402-668-2  
; Sequence 2, Application US/09402668  
; Patent No. 6172030  
; GENERAL INFORMATION:  
; APPLICANT: WADA, Yasunao  
; APPLICANT: KASAI, Miyuki  
; APPLICANT: SHIKATA, Shitsuw  
; APPLICANT: SUZUMATSU, Atsushi  
; APPLICANT: KOIKE, Kenzo  
; APPLICANT: HATADA, Yuji  
; APPLICANT: KOBAYASHI, Tohru  
; APPLICANT: ITO, Susumu  
; APPLICANT: TSUMADOKI, Masaki  
; TITLE OF INVENTION: Detergent Composition  
; FILE REFERENCE: 2173-0116P  
; CURRENT APPLICATION NUMBER: US/09/402,668  
; CURRENT FILING DATE: 1998-10-08  
; PRIOR APPLICATION NUMBER: 9-091142 JAPAN  
; PRIOR FILING DATE: 1997-04-09  
; PRIOR APPLICATION NUMBER: 9-242736 JAPAN  
; PRIOR FILING DATE: 1997-09-08  
; PRIOR APPLICATION NUMBER: PCT/US98/01613  
; PRIOR FILING DATE: 1998-04-09  
; NUMBER OF SEQ ID NOS: 14  
; SOFTWARE: Patentin Ver. 2.1  
; SEQ ID NO 2  
; LENGTH: 197  
; TYPE: PRT  
; ORGANISM: Bacillus sp.  
; OTHER INFORMATION: Strain: KSM-P15  
US-09-402-668-2

Query Match 15.6%; Score 359.5; DB 3; Length 197;  
Best Local Similarity 46.3%; Pred. No. 7.1e-21;  
Matches 81; Conservative 29; Mismatches 56; Indels 9; Gaps 4;

Qy 253 TVLHDTITVKAGQVFDGKGOTFTAG--SELGCGQSENQKPLFILEDGLASLKNVTMGDDGA 311  
Db 3 TVVHETIRVPAGQTFDQKGTQYVANPNTLGDGSAENQKPIFRLEAGASLKNVVICAPAA 62  
Qy 312 DGHLYGDAKIDNLHVTNVEDAITVKPNSAGKSHVEITNSSFEHASDKILOLNADTNL 371  
Db 63 DGVHCYGDCTITNVIWEDVGEDALTUK--SSGT---VNISGGAAYKAYDKVQINAGTI 117  
Qy 372 SVDNVKAKDFGTFVRTNGGQGNWDLNLSHISAEKGFSPVKSDE---GLNVT 423  
Db 118 NIRNFRADDIGKLVQRNGGTTKYVNVNVCNISRVKDALRLTDSSTSTGRVNT 172

## RESULT 6

US-09-198-956-4  
; Sequence 4, Application US/09198956  
; Patent No. 6165769  
; GENERAL INFORMATION:  
; APPLICANT: Andersen, Lene N.  
; APPLICANT: Schulein, Martin  
; APPLICANT: Lange, Niels Erik K.  
; APPLICANT: Bjornvad, Mads E.  
; APPLICANT: Schnorr, Kirk  
; TITLE OF INVENTION: Pectin Degrading Enzymes From Bacillus  
; FILE REFERENCE: 5377.200-US  
; CURRENT APPLICATION NUMBER: US/09/198,956  
; CURRENT FILING DATE: 1998-11-24  
; EARLIER APPLICATION NUMBER: 1344/97  
; EARLIER FILING DATE: 1997-11-24

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; EARLIER APPLICATION NUMBER: 60/067,240
; EARLIER FILING DATE: 1997-12-02
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 221
; TYPE: PRT
; ORGANISM: Bacillus licheniformis
US-09-198-956-4

Query Match
Best Local Similarity 14.8%; Score 341; DB 3; Length 221;
Matches 73; Conservative 33; Mismatches 59; Indels 10; Gaps 2;

QY 254 VLHDTITVKAGQVFDGKGQTFAGSELGDSQSQENOKPLFILEDGASLKNVTMGDDGADG 313
Db 31 VHKTIIVKEGQYDYGKRLIAGPELGDSQSQEDQKPIFKVEDGATLKNVVLGAPAADG 90
QY 314 IHLYGDAKIDNLHVTNVGDAITVKPNSAGKSKSHVEITNSSFEHASDKILQLNADTNLSV 373
Db 91 VHTYGNASINNVWVEDVGEDALTVK-----SEGSVTINGSSARLAADKIFQINKASTFTV 145
QY 374 DNVKADFGFTVNTGSGQGNLDNLSHISAEDGKFSFVKSDSEGLNVNTSDISL 428
Db 146 KNFTADQGGKFIQLGSGTFKAVVNIDNCTIITNMKEAIFRTDS-----STSSVTM 195

RESULT 7
US-09-670-141-4
; Sequence 4, Application US/09670141
; Patent No. 6429000
; GENERAL INFORMATION:
; APPLICANT: Andersen, Lene N.
; APPLICANT: Schultein, Martin
; APPLICANT: Lange, Niels Erik K.
; APPLICANT: Bjornvad, Mads E.
; APPLICANT: Schnorr, Kirk
; TITLE OF INVENTION: Pectin Degrading Enzymes From Bacillus
; FILE REFERENCE: 5377,200-US
; CURRENT APPLICATION NUMBER: US/09/670,141
; PRIOR FILING DATE: 2000-09-26
; PRIOR APPLICATION NUMBER: 09/198,956
; PRIOR FILING DATE: 1998-11-24
; PRIOR APPLICATION NUMBER: 1344/97
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/067,240
; PRIOR FILING DATE: 1997-12-02
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 221
; TYPE: PRT
; ORGANISM: Bacillus licheniformis
US-09-670-141-4

Query Match
Best Local Similarity 14.8%; Score 341; DB 4; Length 221;
Matches 73; Conservative 33; Mismatches 59; Indels 10; Gaps 2;

QY 254 VLHDTITVKAGQVFDGKGQTFAGSELGDSQSQENOKPLFILEDGASLKNVTMGDDGADG 313
Db 31 VHKTIIVKEGQYDYGKRLIAGPELGDSQSQEDQKPIFKVEDGATLKNVVLGAPAADG 90
QY 314 IHLYGDAKIDNLHVTNVGDAITVKPNSAGKSKSHVEITNSSFEHASDKILQLNADTNLSV 373
Db 91 VHTYGNASINNVWVEDVGEDALTVK-----SEGSVTINGSSARLAADKIFQINKASTFTV 145
QY 374 DNVKADFGFTVNTGSGQGNLDNLSHISAEDGKFSFVKSDSEGLNVNTSDISL 428
Db 146 KNFTADQGGKFIQLGSGTFKAVVNIDNCTIITNMKEAIFRTDS-----STSSVTM 195

us-09-596-958a-2.ra1

RESULT 8
US-09-402-668-10
; Sequence 10, Application US/09402668
; Patent No. 6172030
; GENERAL INFORMATION:
; APPLICANT: WADA, Yasunao
; APPLICANT: KASAI, Miyuki
; APPLICANT: SHIKATA, Shitsuw
; APPLICANT: SUZUMATSU, Atsushi
; APPLICANT: KOIKE, Kenzo
; APPLICANT: HATADA, Yuji
; APPLICANT: KOBAYASHI, Tohru
; APPLICANT: ITO, Susumu
; APPLICANT: TSUMADOKI, Masaki
; TITLE OF INVENTION: Detergent Composition
; FILE REFERENCE: 2173-0116P
; CURRENT APPLICATION NUMBER: US/09/402,668
; CURRENT FILING DATE: 1998-10-08
; PRIOR APPLICATION NUMBER: 9-091142 JAPAN
; PRIOR FILING DATE: 1997-04-09
; PRIOR APPLICATION NUMBER: 9-242736 JAPAN
; PRIOR FILING DATE: 1997-09-08
; PRIOR APPLICATION NUMBER: PCT/US98/01613
; PRIOR FILING DATE: 1998-04-09
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 62
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:peptide from
; OTHER INFORMATION: primer
US-09-402-668-10

Query Match
Best Local Similarity 8.2%; Score 190.5; DB 3; Length 62;
Matches 39; Conservative 7; Mismatches 13; Indels 1; Gaps 1;

QY 253 TVLHDTITVKAGQVFDGKGQTFAGSELGDSQSQENOKPLFILEDGASLKNVTMGDDG 311
Db 3 TVVHETIRVPAGQTFDGKGQTVANPNTLIGDSQSQENOKPIFRLEAGASLKNVVGAPAA 62

RESULT 9
US-09-268-347-36
; Sequence 36, Application US/09268347
; Patent No. 6335182
; GENERAL INFORMATION:
; APPLICANT: Loomore, Sheena M.
; TITLE OF INVENTION: RECOMBINANT HAEMOPHILUS INFLUENZAE ADHESIN PROTEINS
; FILE REFERENCE: 1038-860
; CURRENT APPLICATION NUMBER: US/09/268,347
; CURRENT FILING DATE: 1999-03-16
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 36
; LENGTH: 2411
; TYPE: PRT
; ORGANISM: Haemophilus influenzae
US-09-268-347-36

Query Match
Best Local Similarity 7.9%; Score 181.5; DB 3; Length 2411;
Matches 126; Conservative 64; Mismatches 205; Indels 217; Gaps 26;

QY 4 LTINN-----NTSSSPGLFQSGDNGLGGHN-----ANSALGQQPIDROT 43
Db 1182 ITLANGAAAGTDASNGNTISVTKDGISAGNKBITNVKSALTKYKDTQNTAGATQPA-ANT 1240
QY 44 IEQMQLLAELKSLLSPOSNAATGAGNDOTTGVGNAGGLNG-----RKGTAGTTPO 97
Db 1241 AEVAKQDLVDLTK-----PATGAAGNADAKAPDPTTAATVGDRLGLGWLVSARKTADETQD 1296
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; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/891,254
; FILING DATE: 10-JUL-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/475,775
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 14603/10050
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 344 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-891-254-7

Query Match 7.2%; Score 165.5; DB 1; Length 344;
Best Local Similarity 32.0%; Pred. No. 3.6e-05;
Matches 57; Conservative 20; Mismatches 80; Indels 21; Gaps 7;

QY 18 QSGGD---NGLGCHNANSALGQPIDRQTIEQMAQLLAEL-LKSLSPQSGNATGAGGN 73
DB 134 QPGNDKNGVGGANGAKGAGGGGLAEALQIEIQLAQLGGGAGGAGGAGGAGGAGGA 193
QY 74 DQTTGVNAGLNGRKTAGT--TPQSDSQNMLSEMNGNGLDQAITPDG--QGGGQIGDN 129
DB 194 DGGSGAGGAGGANGADGGNGVNGQNGPQNGAGDVNGANGAD-----DGSDDGGGLTGVL 248
QY 130 PLLKAMKLKIARMMD-----QGSDFGQPGTGNNSSASSTSSGSP--FNDLSGKK 179
DB 249 QKLMKILNALVQMQQGLGGGNGQAQGGSKGAGNAPASGANPQNGPSADDDQSSGQ 306

RESULT 12
US-08-819-539-7
; Sequence 7, Application US/08819539
; Patent No. 5859324
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: Hypersensitive Response
; TITLE OF INVENTION: Induced Resistance In Plants
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/819,539
; FILING DATE: 17-MAR-1997
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/475,775
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;
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 14603/10050
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 344 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-819-539-7

Query Match 7.2%; Score 165.5; DB 2; Length 344;
Best Local Similarity 32.0%; Pred. No. 3.6e-05;
Matches 57; Conservative 20; Mismatches 80; Indels 21; Gaps 7;

QY 18 QSGGD---NGLGCHNANSALGQPIDRQTIEQMAQLLAEL-LKSLSPQSGNATGAGGN 73
DB 134 QPGNDKNGVGGANGAKGAGGGGLAEALQIEIQLAQLGGGAGGAGGAGGAGGAGGA 193
QY 74 DQTTGVNAGLNGRKTAGT--TPQSDSQNMLSEMNGNGLDQAITPDG--QGGGQIGDN 129
DB 194 DGGSGAGGAGGANGADGGNGVNGQNGPQNGAGDVNGANGAD-----DGSDDGGGLTGVL 248
QY 130 PLLKAMKLKIARMMD-----QGSDFGQPGTGNNSSASSTSSGSP--FNDLSGKK 179
DB 249 QKLMKILNALVQMQQGLGGGNGQAQGGSKGAGNAPASGANPQNGPSADDDQSSGQ 306

RESULT 13
US-09-030-270A-7
; Sequence 7, Application US/09030270A
; Patent No. 5977060
; GENERAL INFORMATION:
; APPLICANT: Zitter, Thomas A.
; APPLICANT: Wei, Zhong-Min
; TITLE OF INVENTION: INSECT CONTROL WITH A
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: P.O. Box 1051, Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/030,270A
; FILING DATE:
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/039,226
; FILING DATE: 28-FEB-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1521
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 344 amino acids
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; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-030-270A-7

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Best Local Similarity 32.0%; Pred. No. 3.6e-05;
Matches 57; Conservative 20; Mismatches 80; Indels 21; Gaps 7;

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Qy 130 PLLKAMLKLIARMD-----GQSDQFQGPQTGNNSASSGTSSSGGSP--FNDLSGGK 179
Db 249 QKLMKILNALVQMMQOGLGGGNOAQGGSKGAGNAPASGANPCANPGSADDOSSGQ 306

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US-08-984-207-7
; Sequence 7, Application US/08984207
; Patent No. 6235974
; GENERAL INFORMATION:
; APPLICANT: Qiu, Dewen
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE INDUCED
; TITLE OF INVENTION: RESISTANCE IN PLANTS BY SEED TREATMENT
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: P.O. Box 1051, Clinton Square
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/984,207
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/033,230
; FILING DATE: 05-DEC-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1201
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 344 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-984-207-7

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; Sequence 7, Application US/09013587
; Patent No. 6277814
; GENERAL INFORMATION:
; APPLICANT: Qiu, Dewen
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Beer, Steven V.
; TITLE OF INVENTION: ENHANCEMENT OF GROWTH IN PLANTS
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP
; STREET: Clinton Square, P.O. Box 1051
; CITY: Rochester
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 14603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
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; APPLICATION NUMBER: US/09/013,587
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/036,048
; FILING DATE: 27-JAN-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Goldman, Michael L.
; REGISTRATION NUMBER: 30,727
; REFERENCE/DOCKET NUMBER: 19603/1501
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (716) 263-1304
; TELEFAX: (716) 263-1600
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
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; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-013-587-7

Query Match          7.2%; Score 165.5; DB 3; Length 344;
Best Local Similarity 32.0%; Pred. No. 3.6e-05;
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Qy 18 QSGGD---NGLGHNANSALGQPIDRTTIEQMAQLAEL-LKSLSPQSGNAATGAGGN 73
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GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

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1086.747 Million cell updates/sec

Title: US-09-596-958A-2

Perfect score: 2310

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Gapop 10.0 , Gapext 0.5

Searched: 1741741 seqs, 388992284 residues

Total number of hits satisfying chosen parameters: 1741741

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:\*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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2	2310	100.0	447 9	US-09-880-371-5
3	2310	100.0	447 9	US-09-879-248-6
4	2310	100.0	447 14	US-10-010-390-5
5	2310	100.0	447 15	US-10-441-736-6
6	2310	100.0	447 16	US-10-847-142-5
7	559	24.2	424 9	US-09-835-684-9
8	559	24.2	424 9	US-09-880-371-9
9	559	24.2	424 9	US-09-879-248-14
10	559	24.2	424 14	US-10-010-390-9
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12	559	24.2	424	16	US-10-847-142-9	Sequence 9, Appli
13	256	11.1	276	14	US-10-156-761-13910	Sequence 13910, A
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23	183	7.9	588	17	US-10-481-563A-4	Sequence 4, Appli
24	182	7.9	606	15	US-10-282-122A-64464	Sequence 64464, A
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26	181.5	7.9	484	15	US-10-282-122A-64867	Sequence 64867, A
27	180.5	7.8	1079	10	US-09-820-843A-20	Sequence 20, Appl
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36	169	7.3	525	15	US-10-282-122A-64763	Sequence 64763, A
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38	166.5	7.2	518	15	US-10-282-122A-50634	Sequence 50634, A
39	166.5	7.2	532	15	US-10-282-122A-64658	Sequence 64658, A
40	166	7.2	461	15	US-10-282-122A-64750	Sequence 64750, A
41	166	7.2	603	15	US-10-282-122A-64537	Sequence 64537, A
42	166	7.2	767	15	US-10-282-122A-48384	Sequence 48384, A
43	165.5	7.2	344	9	US-09-086-118-27	Sequence 27, Appl
44	165.5	7.2	344	9	US-09-835-684-11	Sequence 11, Appl
45	165.5	7.2	344	9	US-09-880-371-11	Sequence 11, Appl

#### ALIGNMENTS

#### RESULT 1

US-09-835-684-5  
; Sequence 5, Application US/09835684  
; Patent No. US20020019337A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Qiu, Dewen  
; APPLICANT: Remick, Dean  
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR DESICCATION  
; FILE REFERENCE: 21829/71  
; CURRENT APPLICATION NUMBER: US/09/835,684  
; CURRENT FILING DATE: 2001-04-16  
; PRIOR APPLICATION NUMBER: 60/198,359  
; PRIOR FILING DATE: 2000-04-19  
; NUMBER OF SEQ ID NOS: 12  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 5  
; LENGTH: 447  
; TYPE: PRT  
; ORGANISM: Erwinia amylovora  
; US-09-835-684-5

Query Match 100.0%; Score 2310; DB 9; Length 447;

Best Local Similarity 100.0%; Pred. No. 1.3e-151;

Matches 447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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## RESULT 2

US-09-880-371-5  
; Sequence 5, Application US/09880371  
; Patent No. US20020059658A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: DeRoche, Jay  
; TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC  
; FILE REFERENCE: 21825/91  
; CURRENT APPLICATION NUMBER: US/09/880,371  
; CURRENT FILING DATE: 2001-06-13  
; PRIOR APPLICATION NUMBER: 60/211,585  
; PRIOR FILING DATE: 2000-06-15  
; NUMBER OF SEQ ID NOS: 16  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 5  
; LENGTH: 447  
; TYPE: PRT  
; ORGANISM: Erwinia amylovora  
US-09-880-371-5

Query Match 100.0%; Score 2310; DB 9; Length 447;  
Best Local Similarity 100.0%; Pred. No. 1.3e-151;  
Matches 447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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## RESULT 3

US-09-879-248-6  
; Sequence 6, Application US/09879248  
; Patent No. US20020062500A1  
; GENERAL INFORMATION:  
; APPLICANT: Fan, Hao  
; APPLICANT: Wei, Zhong-Min  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE  
; FILE REFERENCE: 21829/81  
; CURRENT APPLICATION NUMBER: US/09/879,248  
; CURRENT FILING DATE: 2001-06-12  
; PRIOR APPLICATION NUMBER: 60/212,211  
; PRIOR FILING DATE: 2000-06-16  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 6  
; LENGTH: 447  
; TYPE: PRT  
; ORGANISM: Erwinia amylovora  
US-09-879-248-6

Query Match 100.0%; Score 2310; DB 9; Length 447;  
Best Local Similarity 100.0%; Pred. No. 1.3e-151;  
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## RESULT 4

US-10-010-390-5  
; Sequence 5, Application US/10010390  
; Publication No. US20030104979A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Leon, Ernesto  
; APPLICANT: Oviedo, Agustín  
; TITLE OF INVENTION: METHODS OF INHIBITING DESICCATION OF CUTTINGS REMOVED  
; TITLE OF INVENTION: FROM ORNAMENTAL PLANTS  
; FILE REFERENCE: 21829/111  
; CURRENT APPLICATION NUMBER: 60/248,169  
; CURRENT FILING DATE: 2001-11-05  
; PRIOR APPLICATION NUMBER: 60/248,169  
; PRIOR FILING DATE: 2000-11-13  
; NUMBER OF SEQ ID NOS: 14  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 5  
; LENGTH: 447  
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; ORGANISM: Erwinia amylovora  
US-10-010-390-5

Query Match 100.0%; Score 2310; DB 14; Length 447;  
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Db 61 PQSNAATGAGNDQTTGVGNAGLNGRKGTAGTTTQSDSQNMLSENGNGLDQAITPDG 120

Qy 121 QGGQIQDGNPLKAMLKLIARMDGSDQFQPGTGNNSASSGTSSSGGSPFNDLSGKA 180  
Db 121 QGGQIQDGNPLKAMLKLIARMDGSDQFQPGTGNNSASSGTSSSGGSPFNDLSGKA 180

Qy 181 PSGNSPGSNYSVSTFSPSTPTSPDLFPSPSPTKAAGSTPTVTDHPDPVGSAGIGAG 240  
Db 181 PSGNSPGSNYSVSTFSPSTPTSPDLFPSPSPTKAAGSTPTVTDHPDPVGSAGIGAG 240

Qy 241 NSVAFTSAGANQTVLHDTITVKAGQVDFGKQGTFTAGSELGQSQSQNKPLFILEDGAS 300  
Db 241 NSVAFTSAGANQTVLHDTITVKAGQVDFGKQGTFTAGSELGQSQSQNKPLFILEDGAS 300

Qy 301 LKNVTMGDDGADGHLHYGDAKIDNLHVTNVGDAITVKPNSAGKSHVEITNSSFHASD 360  
Db 301 LKNVTMGDDGADGHLHYGDAKIDNLHVTNVGDAITVKPNSAGKSHVEITNSSFHASD 360

Qy 361 KILQLNADTNLSVDNVKAKDFGTVRTNGGQGNWDLNLSHISAEDCKF8FVKSDSGLN 420  
Db 361 KILQLNADTNLSVDNVKAKDFGTVRTNGGQGNWDLNLSHISAEDCKF8FVKSDSGLN 420

Qy 421 VNTSDISLGDVENVHYKVPMSANLKVAE 447  
Db 421 VNTSDISLGDVENVHYKVPMSANLKVAE 447

RESULT 5  
US-10-441-736-6  
; Sequence 6, Application US/10441736  
; Publication No. US20040016029A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Schading, Richard L.  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR INDUCED STRESS  
; TITLE OF INVENTION: RESISTANCE  
; FILE REFERENCE: 21829/203 (EBC-003)  
; CURRENT APPLICATION NUMBER: US/10/441,736  
; CURRENT FILING DATE: 2003-05-20  
; PRIOR APPLICATION NUMBER: 60/107,243  
; PRIOR FILING DATE: 1998-11-05

US-10-010-390-5  
; PRIOR APPLICATION NUMBER: 09/431,614  
; PRIOR FILING DATE: 1999-11-02  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 6  
; LENGTH: 447  
; TYPE: PRT  
; ORGANISM: Erwinia amylovora  
US-10-441-736-6

Query Match 100.0%; Score 2310; DB 15; Length 447;  
Best Local Similarity 100.0%; Pred. No. 1.3e-151;  
Matches 447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MSILTLNNNTSSPGLFQSGDNGLGHNANSALGQOQPIDRQTIQMAQLLAELLKSLLS 60  
Db 1 MSILTLNNNTSSPGLFQSGDNGLGHNANSALGQOQPIDRQTIQMAQLLAELLKSLLS 60

Qy 61 PQSNAATGAGNDQTTGVGNAGLNGRKGTAGTTTQSDSQNMLSENGNGLDQAITPDG 120  
Db 61 PQSNAATGAGNDQTTGVGNAGLNGRKGTAGTTTQSDSQNMLSENGNGLDQAITPDG 120

Qy 121 QGGQIQDGNPLKAMLKLIARMDGSDQFQPGTGNNSASSGTSSSGGSPFNDLSGKA 180  
Db 121 QGGQIQDGNPLKAMLKLIARMDGSDQFQPGTGNNSASSGTSSSGGSPFNDLSGKA 180

Qy 181 PSGNSPGSNYSVSTFSPSTPTSPDLFPSPSPTKAAGSTPTVTDHPDPVGSAGIGAG 240  
Db 181 PSGNSPGSNYSVSTFSPSTPTSPDLFPSPSPTKAAGSTPTVTDHPDPVGSAGIGAG 240

Qy 241 NSVAFTSAGANQTVLHDTITVKAGQVDFGKQGTFTAGSELGQSQSQNKPLFILEDGAS 300  
Db 241 NSVAFTSAGANQTVLHDTITVKAGQVDFGKQGTFTAGSELGQSQSQNKPLFILEDGAS 300

Qy 301 LKNVTMGDDGADGHLHYGDAKIDNLHVTNVGDAITVKPNSAGKSHVEITNSSFHASD 360  
Db 301 LKNVTMGDDGADGHLHYGDAKIDNLHVTNVGDAITVKPNSAGKSHVEITNSSFHASD 360

Qy 361 KILQLNADTNLSVDNVKAKDFGTVRTNGGQGNWDLNLSHISAEDCKF8FVKSDSGLN 420  
Db 361 KILQLNADTNLSVDNVKAKDFGTVRTNGGQGNWDLNLSHISAEDCKF8FVKSDSGLN 420

Qy 421 VNTSDISLGDVENVHYKVPMSANLKVAE 447  
Db 421 VNTSDISLGDVENVHYKVPMSANLKVAE 447

RESULT 6  
US-10-847-142-5  
; Sequence 5, Application US/10847142  
; Publication No. US20040265442A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Qiu, Dewen  
; APPLICANT: Remick, Dean  
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE  
; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR  
; TITLE OF INVENTION: DESICCATION  
; FILE REFERENCE: 21829/197  
; CURRENT APPLICATION NUMBER: US/10/847,142  
; CURRENT FILING DATE: 2004-05-17  
; PRIOR APPLICATION NUMBER: 60/198,359  
; PRIOR FILING DATE: 2000-04-19  
; PRIOR APPLICATION NUMBER: 09/835,684  
; PRIOR FILING DATE: 2001-04-16  
; NUMBER OF SEQ ID NOS: 12  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 5  
; LENGTH: 447  
; TYPE: PRT  
; ORGANISM: Erwinia amylovora  
US-10-847-142-5

Query Match 100.0%; Score 2310; DB 16; Length 447;  
Best Local Similarity 100.0%; Pred. No. 1,3e-151;  
Matches 447; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSILTLNNNTSSPGLFQSGGDNGLGHNANSALGQOPIDROTIEQMAQLLAELLKSLLS 60  
DB 1 MSILTLNNNTSSPGLFQSGGDNGLGHNANSALGQOPIDROTIEQMAQLLAELLKSLLS 60

QY 61 PQSGNAATGAGNDQTTGVCNAGLNGKGTACTTTPQSDSQNNMLSEWNGNGLDQAITPDG 120  
DB 61 PQSGNAATGAGNDQTTGVCNAGLNGKGTACTTTPQSDSQNNMLSEWNGNGLDQAITPDG 120

QY 121 QCGGQIGDNPPLLKMLKLIARMDGSDQFQPGCTGNNSASCTSSGSGSPFNDLGGKA 180  
DB 121 QCGGQIGDNPPLLKMLKLIARMDGSDQFQPGCTGNNSASCTSSGSGSPFNDLGGKA 180

QY 181 PSGNSPBGNYSPVSTSPSTPTSPSPDLPFSPSPTKAAGGSTPVTDHPVPVGSAGIGAG 240  
DB 181 PSGNSPBGNYSPVSTSPSTPTSPSPDLPFSPSPTKAAGGSTPVTDHPVPVGSAGIGAG 240

QY 241 NSVAFTSAGANOTVLDHTITVKAGQVFDGKGQFTTAGSELGCGQSENOKPLFILEDGS 300  
DB 241 NSVAFTSAGANOTVLDHTITVKAGQVFDGKGQFTTAGSELGCGQSENOKPLFILEDGS 300

QY 301 LKNVTMGDDGADGHIHYGDAKIDNLHVTNVGEDAITVKPNSAGKSHVEITNSSPFEHSD 360  
DB 301 LKNVTMGDDGADGHIHYGDAKIDNLHVTNVGEDAITVKPNSAGKSHVEITNSSPFEHSD 360

QY 361 KIQLNADTNLSVDNVKAKDFGTFVRTNGQQGNWDLNLSHISAEDGKFSFVKSDSEGLN 420  
DB 361 KIQLNADTNLSVDNVKAKDFGTFVRTNGQQGNWDLNLSHISAEDGKFSFVKSDSEGLN 420

QY 421 VNTSDISLGDVENHYKVPMSANLKVAE 447  
DB 421 VNTSDISLGDVENHYKVPMSANLKVAE 447

## RESULT 7

US-09-835-684-9

; Sequence 9, Application US/09835684  
; Patent No. US20020019337A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Oiu, Dewen  
; APPLICANT: Remick, Dean  
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE  
; RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR  
; FILE REFERENCE: 21829/71  
; CURRENT APPLICATION NUMBER: US/09/835,684  
; PRIOR FILING DATE: 2001-04-16  
; PRIOR APPLICATION NUMBER: 60/198,359  
; PRIOR FILING DATE: 2000-04-19  
; NUMBER OF SEQ ID NOS: 12  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 9  
; LENGTH: 424  
; TYPE: PRT  
; ORGANISM: Pseudomonas syringae

US-09-835-684-9

Query Match 24.2%; Score 559; DB 9; Length 424;  
Best Local Similarity 36.1%; Pred. No. 2e-30;  
Matches 147; Conservative 54; Mismatches 132; Indels 74; Gaps 13;

QY 37 QPIDRTIEQMAQLLAELLKSL---LSPOSNAATGAGNDQTTGVGNAGGLNGRKG TAG 93  
DB 72 KPNDSSQ--NIAKLI SALIMSLQLMLTNSNKKQDTNQEQPDSQAPFNNGGLG-----122

QY 94 TTPQSDSQNNMLSEWNGNGLDQAITPDGQGGGQIGDNPPLKMLKLIARMDGSDQFGQP 153  
DB 123 -TPSADS-----GGGG-----TPDATGGG-GDTP-----SATGGG 151

QY 154 GTGNNSASSTSSGSGSPFNDLSGGKAPSGNSPBGNYSPVSTFSPSTPTSPSTPLDFFPS 213  
DB 152 GGDTPATCGGSGGGGTPTATGG---SGGTPATCGGEGGVTPQITPOL-----A 200

QY 214 SPTKAAGGSTPVTDHPDPVGSAGI GAGNSVAFTSAGANOTVLDHTITVKAGQVFDGKGOT 273  
DB 201 NFNRTSG-----TGSVSDTAGS---TEQAGKINVVKDTIKVGAGEVFDGHGAT 245

QY 274 FTAGSELGCGQSENOKPLFILEDGLASLKNVTMGDDGADGHIHYG-----DAKIDNLHVTN 329  
DB 246 FTADKSMGNGDQGENQKPMFELAEAGATLKNVNLGENEVDGIIHVAKNAQAEVTDIDNHAQN 305

QY 330 VGEDAITVKPNSAGKSHVEITNSSPFEHSDKILQNLADTNLSVDNVKAKDFGTFVRTNG 389  
DB 306 VGEDLITVKEGGAATVNLINIKNSAKGADDDKVVQLNANTHLKIDNFKADDFGTWVRTNG 365

QY 390 GQQ-GNWDNLNLSHISAEDGKFSFVKSDSEGLNVNTSDISLGDVENHY 435  
DB 366 GKQFDDMSTELNGIEANHGKFKALVKSDSDDLKLATGNIAMTDVGHAY 412

## RESULT 8

US-09-880-371-9

; Sequence 9, Application US/09880371  
; Patent No. US20020059658A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Derocher, Jay  
; TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC  
; PLANTS  
; FILE REFERENCE: 21829/91  
; CURRENT APPLICATION NUMBER: US/09/880,371  
; CURRENT FILING DATE: 2001-06-13  
; PRIOR APPLICATION NUMBER: 60/211,585  
; PRIOR FILING DATE: 2000-06-15  
; NUMBER OF SEQ ID NOS: 16  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 9  
; LENGTH: 424  
; TYPE: PRT  
; ORGANISM: Pseudomonas syringae

US-09-880-371-9

Query Match 24.2%; Score 559; DB 9; Length 424;

Best Local Similarity 36.1%; Pred. No. 2e-30;  
Matches 147; Conservative 54; Mismatches 132; Indels 74; Gaps 13;

QY 37 QPIDRTIEQMAQLLAELLKSL---LSPOSNAATGAGNDQTTGVGNAGGLNGRKG TAG 93  
DB 72 KPNDSSQ--NIAKLI SALIMSLQLMLTNSNKKQDTNQEQPDSQAPFNNGGLG-----122

QY 94 TTPQSDSQNNMLSEWNGNGLDQAITPDGQGGGQIGDNPPLKMLKLIARMDGSDQFGQP 153  
DB 123 -TPSADS-----GGGG-----TPDATGGG-GDTP-----SATGGG 151

QY 154 GTGNNSASSTSSGSGSPFNDLSGGKAPSGNSPBGNYSPVSTFSPSTPTSPSTPLDFFPS 213  
DB 152 GGDTPATCGGSGGGGTPTATGG---SGGTPATCGGEGGVTPQITPOL-----A 200

QY 214 SPTKAAGGSTPVTDHPDPVGSAGI GAGNSVAFTSAGANOTVLDHTITVKAGQVFDGKGOT 273  
DB 201 NFNRTSG-----TGSVSDTAGS---TEQAGKINVVKDTIKVGAGEVFDGHGAT 245

QY 274 FTAGSELGCGQSENOKPLFILEDGLASLKNVTMGDDGADGHIHYG-----DAKIDNLHVTN 329  
DB 246 FTADKSMGNGDQGENQKPMFELAEAGATLKNVNLGENEVDGIIHVAKNAQAEVTDIDNHAQN 305

QY 330 VGEDAITVKPNSAGKSHVEITNSSPFEHSDKILQNLADTNLSVDNVKAKDFGTFVRTNG 389  
DB 306 VGEDLITVKEGGAATVNLINIKNSAKGADDDKVVQLNANTHLKIDNFKADDFGTWVRTNG 365

QY 390 GQQ-GNWDNLNLSHISAEDGKFSFVKSDSEGLNVNTSDISLGDVENHY 435  
DB 366 GKQFDDMSTELNGIEANHGKFKALVKSDSDDLKLATGNIAMTDVGHAY 412



QY 94 TTPQSDSNMLSEMGNGLDQAITPDGCGGQIGDNPLLKAMLKLIARMMDGQSDQFGQP 153  
DB 123 -TPSADS-----GGGG-----TPDATGGGG-GDTP-----SATGGG 151  
QY 154 GTGNNSASGTSSSGSGSPNDLSGGKAPSGNSPGNSPVSTFSPPTSTPTSPSLDPPS 213  
DB 152 GGDTPATATGGGSGGGTPTATGGG---SGGTPTATGGGEGGVTPQITPQL-----A 200  
QY 214 SPTKAAGSTPVTDPDPVGSAGIGAGNSVAFTSAGANQTVLHDITTVKAGOVFDGKGOT 273  
DB 201 NPNRTSG-----TGSVSDTAGS-----TEQAGKINVVKDTIKVGAGEVFDGHGAT 245  
QY 274 FTAGSELGDSGQENOKPLFILEDGASLKNVTMGDDGADGIHLVG----DAKIDNLHVTN 329  
DB 246 FTADKSMGNDGQENOKPMFELAEATLKNVNLGENEVDGIHVAKAKNAQEVITIDNVHAQN 305  
QY 330 VGEDAITVKPNSAGKSKSHVEITNSSFEHASDKILOLNADTNLSVDNVKAKDFTGTVRTNG 389  
DB 306 VGEDLITVKGEGGAAVTNLNIKNSSAKGADDKVQVNLNANTHLKIDNFKADDFGTWVRING 365  
QY 390 GQO-GNWDNLNLSHISAEDGKFSFKVKSDEGLNVNTSDISLGDVENHY 435  
DB 366 GKQPDMSIELNGIEANHGKFAVKSDSDDLKLATGNIAMTVDVKHAY 412

## RESULT 12

US-10-847-142-9

; Sequence 9, Application US/10847142

; Publication No. US20040265442A1

; GENERAL INFORMATION:

; APPLICANT: Wei, Zhong-Min

; APPLICANT: Qiu, Dewen

; APPLICANT: Remick, Dean

; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE

; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR

; TITLE OF INVENTION: DESICCATION

; FILE REFERENCE: 21829/197

; CURRENT APPLICATION NUMBER: US/10/847,142

; CURRENT FILING DATE: 2004-05-17

; PRIOR APPLICATION NUMBER: 60/198,359

; PRIOR FILING DATE: 2000-04-19

; PRIOR APPLICATION NUMBER: 09/835,684

; PRIOR FILING DATE: 2001-04-16

; NUMBER OF SEQ ID NOS: 12

; SOFTWARE: Patent In Ver. 2.1

; SEQ ID NO 9

; LENGTH: 424

; TYPE: PRT

; ORGANISM: Pseudomonas syringae

US-10-847-142-9

## Query Match

Best Local Similarity 24.2%; Score 559; DB 16; Length 424;

Matches 147; Conservative 54; Mismatches 132; Indels 74; Gaps 13;

QY 37 QPIDRTTIQMAQLLAELKSL---LSPQSGNAATGAGGNDQTTGVNAGGNGRKGTAG 93  
DB 72 KENDSQS---NIAKLISALIMSLQMLTNNSKNQDITNQEOPDSQAPPQNGGLG-----122  
QY 94 TTPQSDSNMLSEMGNGLDQAITPDGCGGQIGDNPLLKAMLKLIARMMDGQSDQFGQP 153  
DB 123 -TPSADS-----GGGG-----TPDATGGGG-GDTP-----SATGGG 151  
QY 154 GTGNNSASGTSSSGSGSPNDLSGGKAPSGNSPGNSPVSTFSPPTSTPTSPSLDPPS 213  
DB 152 GGDTPATATGGGSGGGTPTATGGG---SGGTPTATGGGEGGVTPQITPQL-----A 200  
QY 214 SPTKAAGSTPVTDPDPVGSAGIGAGNSVAFTSAGANQTVLHDITTVKAGOVFDGKGOT 273  
DB 201 NPNRTSG-----TGSVSDTAGS-----TEQAGKINVVKDTIKVGAGEVFDGHGAT 245  
QY 274 FTAGSELGDSGQENOKPLFILEDGASLKNVTMGDDGADGIHLVG----DAKIDNLHVTN 329

APPLICANT: Yamamoto, Robert  
APPLICANT: Forsyth, R.  
APPLICANT: Xu, H.  
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms  
FILE REFERENCE: ELITRA.034A  
CURRENT APPLICATION NUMBER: US/10/282,122A  
CURRENT FILING DATE: 2003-02-20  
PRIOR APPLICATION NUMBER: 60/191,078  
PRIOR FILING DATE: 2000-03-21  
PRIOR APPLICATION NUMBER: 60/206,848  
PRIOR FILING DATE: 2000-05-23  
PRIOR APPLICATION NUMBER: 60/207,727  
PRIOR FILING DATE: 2000-05-26  
PRIOR APPLICATION NUMBER: 60/230,335  
PRIOR FILING DATE: 2000-09-06  
PRIOR APPLICATION NUMBER: 60/230,347  
PRIOR FILING DATE: 2000-09-09  
PRIOR APPLICATION NUMBER: 60/242,578  
PRIOR FILING DATE: 2000-10-23  
PRIOR APPLICATION NUMBER: 60/253,625  
PRIOR FILING DATE: 2000-11-27  
PRIOR APPLICATION NUMBER: 60/257,931  
PRIOR FILING DATE: 2000-12-22  
PRIOR APPLICATION NUMBER: 60/267,636  
PRIOR FILING DATE: 2001-02-09  
PRIOR APPLICATION NUMBER: 60/269,308  
PRIOR FILING DATE: 2001-02-16  
Remaining Prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 78614  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 64405  
TYPE: PRT  
LENGTH: 1306  
ORGANISM: Mycobacterium tuberculosis  
US-10-282-122A-64405

Query Match 8.6%; Score 199.5; DB 15; Length 1306;  
Best Local Similarity 26.0%; Pred. No. 6.2e-05;  
Matches 88; Conservative 16; Mismatches 122; Indels 113; Gaps 11;

Qy 8 NNTSSSPLFQSGDNGGLGHNANSALGQQPIDRQTEIQMAQLLAELLKSLSPQSGNAA 67  
Db 754 NGVAGSGPGGAGDGGTGGVGGNGRGICADGAT----- 789  
Qy 68 TGAGGNDQTTGVGNAGLNGRKGTAGTTPQSDSQNMLSEMNGNGLDQAITPDGQGGQIG 127  
Db 790 --AGARQDGGAGGAGCKGGRGTGP-----CGAGPAGTTGSGGAGNG 832  
Qy 128 DNPLLKAMKLIARMDQSDQFQPGTGNNSASSTSSGGSPFNDLSGKA-PSGNSP 186  
Db 833 -----GSGGTGDPDGGGNGANGSVFTNNGIGGNGGNGAGPSGAGG 875  
Qy 187 SGNVSPVSTPPTPTPTSPSL-----DPPSPPTKAAG-----G 221  
Db 876 SGGAG--STFG-----ATGSSSHVNGGNGGNGGNGDHALSGAAGNGGNGSLRG 929  
Qy 222 STPTVTHDPDPVGSAGIAGNSVAFSTAGANQTVLHDTITTVKAGQVFDGKGTFTAGSELG 281  
Db 930 SGGAGGCGGNGENASRCMGDGGGTGGAGN-----ACQING-----CAGGNGG 973  
Qy 282 DGGSENGKPLFIL-----EDGASLKNTVMGDDGADG 313  
Db 974 DGGTSDGNPCAITGSGRGDGGGVGGQGGSVAGDGADG 1012

RESULT 15  
US-10-282-122A-64726  
Sequence 64726, Application US/10282122A  
Publication No. US20040029129A1  
GENERAL INFORMATION:  
APPLICANT: Wang, Liangsu  
APPLICANT: Zamudio, Carlos  
APPLICANT: Malone, Cheryl

APPLICANT: Haselbeck, Robert  
APPLICANT: Ohlsen, Kari  
APPLICANT: Zyskind, Judith  
APPLICANT: Wall, Daniel  
APPLICANT: Trawick, John  
APPLICANT: Carr, Grant  
APPLICANT: Yamamoto, Robert  
APPLICANT: Forsyth, R.  
APPLICANT: Xu, H.  
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms  
FILE REFERENCE: ELITRA.034A  
CURRENT APPLICATION NUMBER: US/10/282,122A  
CURRENT FILING DATE: 2003-02-20  
PRIOR APPLICATION NUMBER: 60/191,078  
PRIOR FILING DATE: 2000-03-21  
PRIOR APPLICATION NUMBER: 60/206,848  
PRIOR FILING DATE: 2000-05-23  
PRIOR APPLICATION NUMBER: 60/207,727  
PRIOR FILING DATE: 2000-05-26  
PRIOR APPLICATION NUMBER: 60/230,335  
PRIOR FILING DATE: 2000-09-06  
PRIOR APPLICATION NUMBER: 60/230,347  
PRIOR FILING DATE: 2000-09-09  
PRIOR APPLICATION NUMBER: 60/242,578  
PRIOR FILING DATE: 2000-10-23  
PRIOR APPLICATION NUMBER: 60/253,625  
PRIOR FILING DATE: 2000-11-27  
PRIOR APPLICATION NUMBER: 60/257,931  
PRIOR FILING DATE: 2000-12-22  
PRIOR APPLICATION NUMBER: 60/267,636  
PRIOR FILING DATE: 2001-02-09  
PRIOR APPLICATION NUMBER: 60/269,308  
PRIOR FILING DATE: 2001-02-16  
Remaining Prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 78614  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 64726  
TYPE: PRT  
LENGTH: 694  
ORGANISM: Mycobacterium tuberculosis  
US-10-282-122A-64726

Query Match 8.4%; Score 193; DB 15; Length 694;  
Best Local Similarity 25.4%; Pred. No. 7.9e-05;  
Matches 86; Conservative 28; Mismatches 140; Indels 84; Gaps 14;

Qy 18 QSGDNGGLGCH-NANSALGQQPIDRQTEIQMAQLLAELLKSLSPQSGNAAATGAGGNDQT 76  
Db 256 QTGDDGGTGGHGTAGTPTGTGGDGT-----ATAGSKATGAGGDDGT 300  
Qy 77 TGVGNAGGLNGRGTAGTTPQSDSQNMLSEMNGNGLDQAITPDGQGGQIGDNPLLKAML 136  
Db 301 AAAGGGGGNGDGVGVA---QGDIASAFGGDGGNGSDGVAAGSGGSGGAGGG---AFV 352  
Qy 137 KLIRMDQSDQFQPGTGNNSASSTG-SSSGSPFNDLSGKK--APSGNSPSCNYSVPV 193  
Db 353 HIATATSTGSGGFG--GNGAASAAAGDAGGAGGNGGAGLLFGDGGNGGAGGAGGI 410  
Qy 194 STSPSTPTPTSPPLDPPSSPTKAAGGSTPVT--DHPDP-----VGSAG 236  
Db 411 GG-----DGATGPGGSGGNGAGIARFSDPDEAPDVVGGGDDGGKGGSG 456  
Qy 237 IGAGNSVAFSTAGANQTVLHDTITTVKAGQVFDGKGTFTAGSELGDCGQSENKPLFILE 296  
Db 457 LGVGGAGGTGGAGNG-----GAGGLLFGNGN-----GNGAGAGG-----D 493  
Qy 297 DGASLKNTVMGDDGAGGIHLYGDAKIDNL-HVTNVGED 333  
Db 494 GGAGVAGVGGGNGGGGTATFHEDPVAGVWAVGCVGD 531

Search completed: July 27, 2005, 14:53:27  
Job time : 166 secs





GenCore version 5.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: July 29, 2005, 13:10:34 ; Search time 225 Seconds  
(without alignments)  
9774.026 Million cell updates/sec

Title: US-09-596-958A-1  
Perfect score: 1344  
Sequence: 1 atgtcaattcttcacgttaa.....acctgaagtggtgaatga 1344

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA:\*

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- 2: /cgn2\_6/ptodata/1/ina/5B\_COMB.seq:\*
- 3: /cgn2\_6/ptodata/1/ina/6A\_COMB.seq:\*
- 4: /cgn2\_6/ptodata/1/ina/6B\_COMB.seq:\*
- 5: /cgn2\_6/ptodata/1/ina/PTCTUS\_COMB.seq:\*
- 6: /cgn2\_6/ptodata/1/ina/backfiles1.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1344	100.0	1344	3	US-09-120-927-1
2	1344	100.0	1344	4	US-09-431-614-5
3	155.2	11.5	1729	3	US-09-120-817-1
4	155.2	11.5	1729	4	US-09-431-614-13
5	94.8	7.1	591	3	US-09-402-668-1
6	74.2	5.5	666	3	US-09-198-956-3
7	74.2	5.5	666	3	US-09-670-141-3
8	58.6	4.4	185	3	US-09-402-668-9
9	45.8	3.4	7218	1	US-08-232-463-14
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11	42.8	3.2	1166	3	US-09-072-596-323
12	42.8	3.2	1166	4	US-09-072-967-328
13	39.4	2.9	304533	4	US-09-949-016-15371
14	39.4	2.9	304533	4	US-09-949-016-15372
15	39	2.9	601	4	US-09-949-016-127761
16	39	2.9	601	4	US-09-949-016-128098
17	38	2.8	1371	4	US-09-489-039A-1161
18	37.4	2.8	1785	4	US-09-949-016-5043
19	37.4	2.8	1785	4	US-09-949-016-5044
20	37.4	2.8	2371	2	US-08-343-443B-1
21	37.4	2.8	35784	4	US-09-949-016-16785
22	37.4	2.8	35784	4	US-09-949-016-16786
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24	37	2.8	198632	4	US-09-949-016-17393
25	36.8	2.7	810	4	US-09-902-540-5083
26	36.8	2.7	1068	4	US-09-710-794-3
27	36.8	2.7	28194	4	US-09-902-540-1250

C 28	36.8	2.7	4403765	3	US-09-103-840A-2	Sequence 2, Appli
C 29	36.8	2.7	4411529	3	US-09-103-840A-1	Sequence 1, Appli
C 30	36.6	2.7	1464	4	US-09-902-540-2748	Sequence 2748, Ap
C 31	36.6	2.7	17862	4	US-09-902-540-1130	Sequence 1130, Ap
C 32	36.6	2.7	157822	4	US-09-949-016-16723	Sequence 16723, A
C 33	36.4	2.7	194937	4	US-09-949-016-17032	Sequence 17032, A
C 34	36.4	2.7	194937	4	US-09-949-016-17033	Sequence 17033, A
C 35	36.2	2.7	300	4	US-09-583-110-2559	Sequence 2559, Ap
C 36	36.2	2.7	400	3	US-08-961-083-187	Sequence 187, App
C 37	36.2	2.7	400	4	US-09-536-784-187	Sequence 187, App
C 38	36.2	2.7	462	4	US-09-107-433-1648	Sequence 1648, Ap
C 39	36.2	2.7	633	4	US-09-583-110-2558	Sequence 2558, Ap
C 40	36.2	2.7	1482	4	US-09-902-540-6511	Sequence 6511, Ap
C 41	36.2	2.7	2581	4	US-09-902-540-472	Sequence 472, App
C 42	36.2	2.7	3510	3	US-08-961-527-53	Sequence 53, Appl
C 43	35.8	2.7	289	3	US-09-007-005-17	Sequence 17, Appl
C 44	35.8	2.7	289	3	US-09-244-796-17	Sequence 17, Appl
C 45	35.8	2.7	1776	4	US-09-252-991A-9406	Sequence 9406, Ap

#### ALIGNMENTS

##### RESULT 1

US-09-120-927-1  
; Sequence 1, Application US/09120927  
; Patent No. 6262018  
; GENERAL INFORMATION:  
; APPLICANT: Kim, Jihyun Francis  
; APPLICANT: Beer, Steven V.  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FROM  
; TITLE OF INVENTION: ERWINIA AMYLOVORA AND ITS USE  
; NUMBER OF SEQUENCES: 3  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
; STREET: P.O. Box 1051, Clinton Square  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/120,927  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/055,108  
; FILING DATE: 06-AUG-1977  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 19603/1581  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1344 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
US-09-120-927-1

Query Match 100.0%; Score 1344; DB 3; Length 1344;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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Db 1 ATGTCAATCTTACGCTTAACAACAATACCTGCTCGCGGGTCTGTTCCAGTCCGG 60  
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Db 61 GGGGACAAACGGGCTTGCTGATCAATGCAAAATCTGCGTGGGGCAACAACCCATCGAT 120  
QY 121 CGGCAAAACCAATTGAGCAAAATGGCTCAATTAATGCGGAACTGTTAAAGTCACTGCTATCG 180  
Db 121 CGGCAAAACCAATTGAGCAAAATGGCTCAATTAATGCGGAACTGTTAAAGTCACTGCTATCG 180  
QY 181 CCACAAATCAGGTAATGCGGCAACCGGAGCCGGTGGCAATGACAGACTACAGGAGTTGGT 240  
Db 181 CCACAAATCAGGTAATGCGGCAACCGGAGCCGGTGGCAATGACAGACTACAGGAGTTGGT 240  
QY 241 AACGCTGGCGGCTGAAACCGGCAACCGGAGCCGGTGGCAATGACAGACTACAGGAGTTGGT 300  
Db 241 AACGCTGGCGGCTGAAACCGGCAACCGGAGCCGGTGGCAATGACAGACTACAGGAGTTGGT 300  
QY 301 CAGAACATGCTGAGTGAGATGCGGCAACCGGAGCCGGTGGCAATGACAGACTACAGGAGTTGGT 360  
Db 301 CAGAACATGCTGAGTGAGATGCGGCAACCGGAGCCGGTGGCAATGACAGACTACAGGAGTTGGT 360  
QY 361 CAGAACATGCTGAGTGAGATGCGGCAACCGGAGCCGGTGGCAATGACAGACTACAGGAGTTGGT 420  
Db 361 CAGAACATGCTGAGTGAGATGCGGCAACCGGAGCCGGTGGCAATGACAGACTACAGGAGTTGGT 420  
QY 421 CAGAACATGCTGAGTGAGATGCGGCAACCGGAGCCGGTGGCAATGACAGACTACAGGAGTTGGT 480  
Db 421 CAGAACATGCTGAGTGAGATGCGGCAACCGGAGCCGGTGGCAATGACAGACTACAGGAGTTGGT 480  
QY 481 TCCTTCGGGTAATCTGAGTGGGCAACCGGAGCCGGTGGCAATGACAGACTACAGGAGTTGGT 540  
Db 481 TCCTTCGGGTAATCTGAGTGGGCAACCGGAGCCGGTGGCAATGACAGACTACAGGAGTTGGT 540  
QY 541 CTTTCGGGTAATCTGAGTGGGCAACCGGAGCCGGTGGCAATGACAGACTACAGGAGTTGGT 600  
Db 541 CTTTCGGGTAATCTGAGTGGGCAACCGGAGCCGGTGGCAATGACAGACTACAGGAGTTGGT 600  
QY 601 ACGCCAATGCTGAGTGGGCAACCGGAGCCGGTGGCAATGACAGACTACAGGAGTTGGT 660  
Db 601 ACGCCAATGCTGAGTGGGCAACCGGAGCCGGTGGCAATGACAGACTACAGGAGTTGGT 660  
QY 661 GGCAGACACGGGCTGAGTGGGCAACCGGAGCCGGTGGCAATGACAGACTACAGGAGTTGGT 720  
Db 661 GGCAGACACGGGCTGAGTGGGCAACCGGAGCCGGTGGCAATGACAGACTACAGGAGTTGGT 720  
QY 721 AATTTCGGGTAATCTGAGTGGGCAACCGGAGCCGGTGGCAATGACAGACTACAGGAGTTGGT 780  
Db 721 AATTTCGGGTAATCTGAGTGGGCAACCGGAGCCGGTGGCAATGACAGACTACAGGAGTTGGT 780  
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Db 781 GTGAAAGCGGCTGAGTGGGCAACCGGAGCCGGTGGCAATGACAGACTACAGGAGTTGGT 840  
QY 841 GGCAGACACGGGCTGAGTGGGCAACCGGAGCCGGTGGCAATGACAGACTACAGGAGTTGGT 900  
Db 841 GGCAGACACGGGCTGAGTGGGCAACCGGAGCCGGTGGCAATGACAGACTACAGGAGTTGGT 900  
QY 901 CTGAAAGCGGCTGAGTGGGCAACCGGAGCCGGTGGCAATGACAGACTACAGGAGTTGGT 960  
Db 901 CTGAAAGCGGCTGAGTGGGCAACCGGAGCCGGTGGCAATGACAGACTACAGGAGTTGGT 960  
QY 961 AATATGAGCAATCTGAGTGGGCAACCGGAGCCGGTGGCAATGACAGACTACAGGAGTTGGT 1020  
Db 961 AATATGAGCAATCTGAGTGGGCAACCGGAGCCGGTGGCAATGACAGACTACAGGAGTTGGT 1020  
QY 1021 AGCGCGGCAACCGGCTGAGTGGGCAACCGGAGCCGGTGGCAATGACAGACTACAGGAGTTGGT 1080  
Db 1021 AGCGCGGCAACCGGCTGAGTGGGCAACCGGAGCCGGTGGCAATGACAGACTACAGGAGTTGGT 1080  
QY 1081 AAGATCTGAGTGGGCAACCGGAGCCGGTGGCAATGACAGACTACAGGAGTTGGT 1140  
Db 1081 AAGATCTGAGTGGGCAACCGGAGCCGGTGGCAATGACAGACTACAGGAGTTGGT 1140

Db 1081 AAGATCTGAGTGGGCAACCGGAGCCGGTGGCAATGACAGACTACAGGAGTTGGT 1140  
QY 1141 TTTGGTACTTTTGTAGGCACTAACCGGCGGTCAACAGGGTAACCTGGATCTGAATCTGAGC 1200  
Db 1141 TTTGGTACTTTTGTAGGCACTAACCGGCGGTCAACAGGGTAACCTGGATCTGAATCTGAGC 1200  
QY 1201 CATATCAGCGCAGAGACGGTAAGTCTCGTTTCTGTTTAAAGCGATAGCGAGGGCTTAAAC 1260  
Db 1201 CATATCAGCGCAGAGACGGTAAGTCTCGTTTCTGTTTAAAGCGATAGCGAGGGCTTAAAC 1260  
QY 1261 GTCAATACCAAGTATATCTCACTGGGTGATGTTGAAACCACTACAAAGTCCGATGTCC 1320  
Db 1261 GTCAATACCAAGTATATCTCACTGGGTGATGTTGAAACCACTACAAAGTCCGATGTCC 1320  
QY 1321 GCCAACCTGAAGTGGCTGAATGA 1344  
Db 1321 GCCAACCTGAAGTGGCTGAATGA 1344

RESULT 2  
US-09-431-614-5  
; Sequence 5, Application US/09431614  
; Patent No. 6624139  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Schading, Richard L.  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR-INDUCED STRESS  
; TITLE OF INVENTION: RESISTANCE  
; FILE REFERENCE: 21829/41 (BBC-003)  
; CURRENT APPLICATION NUMBER: US/09/431,614  
; EARLIER FILING DATE: 1999-11-02  
; EARLIER APPLICATION NUMBER: 60/107,243  
; EARLIER FILING DATE: 1998-11-05  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 5  
; LENGTH: 1344  
; TYPE: DNA  
; ORGANISM: Erwinia amylovora  
US-09-431-614-5

Query Match 100.0%; Score 1344; DB 4; Length 1344;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGTCAATCTTACGCTTAACAACAATACCTGCTCGCGGGTCTGTTCCAGTCCGGG 60  
Db 1 ATGTCAATCTTACGCTTAACAACAATACCTGCTCGCGGGTCTGTTCCAGTCCGGG 60  
QY 61 GGGGACAAACGGGCTTGCTGATCAATGCAAAATCTGCGTGGGGCAACAACCCATCGAT 120  
Db 61 GGGGACAAACGGGCTTGCTGATCAATGCAAAATCTGCGTGGGGCAACAACCCATCGAT 120  
QY 121 CGGCAAAACCAATTGAGCAAAATGGCTCAATTAATGCGGAACTGTTAAAGTCACTGCTATCG 180  
Db 121 CGGCAAAACCAATTGAGCAAAATGGCTCAATTAATGCGGAACTGTTAAAGTCACTGCTATCG 180  
QY 181 CCACAAATCAGGTAATGCGGCAACCGGAGCCGGTGGCAATGACAGACTACAGGAGTTGGT 240  
Db 181 CCACAAATCAGGTAATGCGGCAACCGGAGCCGGTGGCAATGACAGACTACAGGAGTTGGT 240  
QY 241 AACGCTGGCGGCTGAAACCGGCAACCGGAGCCGGTGGCAATGACAGACTACAGGAGTTGGT 300  
Db 241 AACGCTGGCGGCTGAAACCGGCAACCGGAGCCGGTGGCAATGACAGACTACAGGAGTTGGT 300  
QY 301 CAGAACATGCTGAGTGAGATGCGGCAACCGGAGCCGGTGGCAATGACAGACTACAGGAGTTGGT 360  
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QY 361 CAGAACATGCTGAGTGAGATGCGGCAACCGGAGCCGGTGGCAATGACAGACTACAGGAGTTGGT 420  
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meditation  
problem

QY 421 CGCATGATGACGGCCAAAGCGATCAGTTTGGCCAACTGGTACGGGCAACACAGTGCC 480  
DB 421 CGCATGATGACGGCCAAAGCGATCAGTTTGGCCAACTGGTACGGGCAACACAGTGCC 480  
QY 481 TCTTCGGGTACTTCTTCATCTGGCGGTTCCTCTTTAAACGATCTATCAGGGGGGAAGGCC 540  
DB 481 TCTTCGGGTACTTCTTCATCTGGCGGTTCCTCTTTAAACGATCTATCAGGGGGGAAGGCC 540  
QY 541 CTTTCGGGCAACTCCCTTCCTTCGGGAACTACTCTCCCGTCAGTACCTTCTCACCCCATCC 600  
DB 541 CTTTCGGGCAACTCCCTTCCTTCGGGAACTACTCTCCCGTCAGTACCTTCTCACCCCATCC 600  
QY 601 ACCGCAAGTCCCTACTCAGCGCTGATTTCCCTTCTCTCCCAACCAAGCAGCGGG 660  
DB 601 ACCGCAAGTCCCTACTCAGCGCTGATTTCCCTTCTCTCCCAACCAAGCAGCGGG 660  
QY 661 GGCAGACGCGGGTAAACCGATCATCTGACCTCTGTTGGTAGCGGGGCATCGGGCGGA 720  
DB 661 GGCAGACGCGGGTAAACCGATCATCTGACCTCTGTTGGTAGCGGGGCATCGGGCGGA 720  
QY 721 AATTGGTGGCTTACACAGCGCGGCTTAATCAGACGGTGTGATGACACATTTACC 780  
DB 721 AATTGGTGGCTTACACAGCGCGGCTTAATCAGACGGTGTGATGACACATTTACC 780  
QY 781 GTGAAAGCGGTGAGTGTGTTGATGGCAAGGCAACCTTACCCGCGTTTCAAGATTA 840  
DB 781 GTGAAAGCGGTGAGTGTGTTGATGGCAAGGCAACCTTACCCGCGTTTCAAGATTA 840  
QY 841 GGGATGGCGGCGAGTCTGAAACCAAGACCGCTGTTTATCTGGAAGACGGTGCCAGC 900  
DB 841 GGGATGGCGGCGAGTCTGAAACCAAGACCGCTGTTTATCTGGAAGACGGTGCCAGC 900  
QY 901 CTGAAAAACGTCACATGGCGGACGACGGGGCGAGTATTCTTTTACGGTGATGCC 960  
DB 901 CTGAAAAACGTCACATGGCGGACGACGGGGCGAGTATTCTTTTACGGTGATGCC 960  
QY 961 AATATAGACATCTGACAGTCCCAACGCTGGTGAGGACCGGATACCGTTAAGCCAAAC 1020  
DB 961 AATATAGACATCTGACAGTCCCAACGCTGGTGAGGACCGGATACCGTTAAGCCAAAC 1020  
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DB 1081 AAGATCTCGAGTGAATGCGGATATACTAAGCTGAGCGTTGACAACTGAAGGCAAGAC 1140  
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DB 1141 TTTGGTACTTTGTACGCACTAACGGCGGTCAACAGGGTAACTGGGATCTGAATCTGAGC 1200  
QY 1201 CATATACGCGCAGAGACGGTAACTTCTGTTGTTAAAGCGATACGAGGGGCTAAAC 1260  
DB 1201 CATATACGCGCAGAGACGGTAACTTCTGTTGTTAAAGCGATACGAGGGGCTAAAC 1260  
QY 1261 GTCAATACCAAGTATCTCACTGGGTGATGTTGAAAACCACTACAAAGTCCGATGCC 1320  
DB 1261 GTCAATACCAAGTATCTCACTGGGTGATGTTGAAAACCACTACAAAGTCCGATGCC 1320  
QY 1321 GCCAACTGAAGTGGCTGAATGA 1344  
DB 1321 GCCAACTGAAGTGGCTGAATGA 1344

## RESULT 3

US-09-120-817-1  
; Sequence 1, Application US/09120817  
; Patent No. 6172184  
; GENERAL INFORMATION:  
; APPLICANT: Collmer, Alan  
; APPLICANT: Charkowski, Amy  
; APPLICANT: Alfano, James R.

; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR FROM  
; TITLE OF INVENTION: PSEUDOMONAS SYRINGAE AND ITS USE  
; NUMBER OF SEQUENCES: 8  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Nixon, Hargrave, Devans & Doyle LLP  
; STREET: P.O. Box 1051, Clinton Square  
; CITY: Rochester  
; STATE: New York  
; COUNTRY: U.S.A.  
; ZIP: 14603  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/120,817  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/055,107  
; FILING DATE: 06-AUG-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Goldman, Michael L.  
; REGISTRATION NUMBER: 30,727  
; REFERENCE/DOCKET NUMBER: 19603/1741  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (716) 263-1304  
; TELEFAX: (716) 263-1600  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1729 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: DNA (genomic)  
; US-09-120-817-1

Query Match 11.5%; Score 155.2; DB 3; Length 1729;  
Best Local Similarity 57.1%; Pred. No. 3.2e-39;  
Matches 330; Conservative 0; Mismatches 233; Indels 15; Gaps 2;

QY 745 GCGCTAATCAGCGGTGCTGCATGACACCATTTACCGTGAAGCGGTGAGTTTGTAT 804  
DB 1079 GCGGCAAGATCAATGTGGTGAAGACACCATCAGGTGCGCGCTGGCGAAGTCTTTGAC 1138  
QY 805 GGCAGGAGCAAACTTCCCGCGGTTTCAAGATTAGGCGATCGCGCGCATCTGAAAAAC 864  
DB 1139 GGCACGGCGCAACTTCTCCTCGGACAAATCTATGGTTAACGGAGACGAGGGCGAAAT 1198  
QY 865 CAGAAACCGGTGTTTATCTGGAAGACGGTGCAGCGCTGAAAAACGTCACCATGGGCGAC 924  
DB 1199 CAGAGCCCATGTTTCGAGCTGGCTGAAGCGCTACGTTGAAGAAATGTGAACCTGGGTGAG 1258  
QY 925 GACGGGGCGATGTTATTCATCTTTAGC-----GTGATGCAAAATAGACAAT 972  
DB 1259 AACGAGTTCGATGCGATCCACGCTGAAGGCAAAACGCTCAGGAAGTCACTTTGACAC 1318  
QY 973 CTGACGTCACCAACGCTGGGTGAGGACGGATTACCGTTAAGCAAAACACGCGGGGCAAA 1032  
DB 1319 GTGATGCCAGAACGTCGTTGAGACCTGATTTACGTTAAAGCGGAGGAGGCGAGCG 1378  
QY 1033 AATCCCGATTTGAAATCACTAACAGTTTCTTCGAGCACGCTCTTGACAAAGATCTCTGAG 1092  
DB 1379 GTCACATACTGAACATCAAGACACGAGTCGCAAGAGTGCAGACGACAGGTTGTCCAG 1438  
QY 1093 CTGAATGCCGATCTAACTGACGCTTGAACAGTGAAGCCAAAGCTTTTGTACTTTT 1152  
DB 1439 CTCAGCGCCAACTCACTTCTGAAATCGAACACTTCAAGGCCGACGATTTTCGACGATG 1498  
QY 1153 GTACGCACTAACCGCGGTCAACAG---GGTAACTGGGATCTGAATCTGAGCCATATCAGC 1209  
DB 1499 GTTCGCCCAACCGGTGGCAGCAGTTTGTATGACATGAGCATCGAGCTGAGACGCAATCGAA 1558

Qy	1210	GCAGAGACGGTAAAGTTCTTCGTTCTGTTTAAAGCGATAGCGAGGGGCTAAACGTCAATACC	1269
Db	1559	GCTAACCA CGGCAAGTTCCGCTTGGTGAAGAGCGACAGTGCATCTGAAGCTGGCAACG	1618

**Qy** 1270 AGTGATATCTCACTGGGTGATTTGAAAACCACTACAA 1307  
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**Dβ** 1619 GGCAACATCGCCATGACCGACGTCAAACACGCCTACGA 1656

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RESULT 4
US-09-431-614-13
; Sequence 13, Application US/09431614
; Patent No. 6624139
; GENERAL INFORMATION:
; APPLICANT: Wei, Zhong-Min
; APPLICANT: Schading, Richard L.
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR-INDUCED STRESS
; TITLE OF INVENTION: RESISTANCE
; FILE REFERENCE: 21829/41 (EBC-003)
; CURRENT APPLICATION NUMBER: US/09/431,614
; CURRENT FILING DATE: 1999-11-02
; EARLIER APPLICATION NUMBER: 60/107,243
; EARLIER FILING DATE: 1998-11-05
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn ver. 2.0
; SEQ ID NO 13
; LENGTH: 1729
; TYPE: DNA
; ORGANISM: Pseudomonas syringae
US-09-431-614-13

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Query Match	11.5%	Score 155.2	DB 4	Length 1729
Best Local Similarity	57.1%	Pred. No. 3.2e-39		
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Db	1079	GCGGCGAAGATCAATGTGGTGAAGACACCATCAGGTCCGGCTGGCAAGTCTTTGAC	1138	
QY	805	GGCAAGGACAAACCTTTCACGCGCGGTTTCAGAATTAGCGGATGCGGCCACAGTCTGAAAC	864	
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Db	1199	CAGAAGCCCATGTTTCGAGCTGGCTGAAGGGCTACGTTGAAGAAATGTGAACCTGGGTGAG	1258	
QY	925	GACGGGCGGATGATTTTCATCTTTACG-----GTGATGCCAAAATAGACAAT	972	
Db	1259	AACGAGTTCGATGGCATCCACGTGAAGCCAAAACGCTCAGGAAGTCCATTTGACAC	1318	
QY	973	CTGCACGTCACCAACGTGGGTGAGGACGCGATTAACCGTTAAGGCCAAACAGCGGGGCAAA	1032	
Db	1319	GTGCATGCCAGAAACGTGCGGTGAAGACCTGATTACGGTCAAGCGAGGAGCGCAGCG	1378	
QY	1033	AAATCCACGTTGAATCACTAACAGTTCCTTCGAGACGCGCTCTGACAGATCTCTGCAG	1092	
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QY	1093	CTGAATGCCGATACTAACCTGAGGTTGACAAAGTGAAGGCCAAAGACTTTGTGACTTTT	1152	
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QY	1153	GTACGCACTAACCGCGGTCAACAG--GGTAACTGGGATCTGAATCTGAGCCCATATCAGC	1209	
Db	1499	GTTTCGACCAACCGGTGGCAAGCAGTTTGTATGACATGACATCGAGCTGAACGGCATCGAA	1558	
QY	1210	GCAGAAGACGGTAAGTTCCTGTTTAAAGCGATGCGAGGGCTAAACGTCATATACC	1269	
Db	1559	GCTAAACACCGCAAGTTTCGCCCTTGGTGAAGCGACAGTGCACGATCTGGAAGTGGCAACG	1618	
QY	1270	AGTGATATCTCACTGGGTGATGTGAAAACCACTTACAA	1307	

Db 1619 GGCAACATCGCCCATGACCGAGCGTCAAACACGCGCTACGA 1656

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RESULT 5
US-09-402-668-1
; Sequence 1, Application US/09402668
; Patent No. 6172030
; GENERAL INFORMATION:
; APPLICANT: WADA, Yasunao
; APPLICANT: KASAI, Miyuki
; APPLICANT: SHIKATA, Shitsuw
; APPLICANT: SUZUMATSU, Atsushi
; APPLICANT: KOIKE, Kenzo
; APPLICANT: HATADA, Yuji
; APPLICANT: KOBAYASHI, Tohru
; APPLICANT: ITO, Susumu
; APPLICANT: TSUMADORI, Masaki
; TITLE OF INVENTION: Detergent Composition
; FILE REFERENCE: 2173-0116P
; CURRENT APPLICATION NUMBER: US/09/402,668
; CURRENT FILING DATE: 1998-10-08
; PRIOR APPLICATION NUMBER: 9-091142 JAPAN
; PRIOR FILING DATE: 1997-04-09
; PRIOR APPLICATION NUMBER: 9-242736 JAPAN
; PRIOR FILING DATE: 1997-09-08
; PRIOR APPLICATION NUMBER: PC7/US98/01613
; PRIOR FILING DATE: 1998-04-09
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 1
; LENGTH: 591
; TYPE: DNA
; ORGANISM: Bacillus sp.
; FEATURE:
; OTHER INFORMATION: Strain: KSM-P15
; NAME/KEY: CDS
; LOCATION: (1)..(591)
US-09-402-668-1

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QY	814	CAAACTTCAACGCCGGTTTCAGAAA---ATTAGGCGATGGCGGCCAGTCTGAAAACCCAGAAA	870
Db	64	CAGACCTATGTGCTCTAATCCGAATACATTGGGGGACGGATCGCAGGCGGAGAAATCAGAAG	123
QY	871	CCGCTGTTTATCTGGAAGACGGTGCAGCCTCAAAAAAGTCCACCATGGCGGACGACGGG	930
Db	124	CCGATCTTCGTCTGGAGCTGGGGCAAGCCTGAAAAATGTAGTGATTGGCGCTCTCGCC	183
QY	931	GCGGATGGTATTTCATTTCACGGTGTATGCCAAAATAGACAATCTGCACGTTCACCAACGTG	990
Db	184	GCTGACGGGTGCACCTGCTACGGGGATTGTACGATTACAAATGTCATCTGGGAGGATGTT	243
QY	991	GGTGAGGACGCGATTACCGTTAAGCCAAACAGCGCGGGGCAAAAAATCCCAAGTTGAATC	1050
Db	244	GGTGAGGATGCGCTGACGCTTAAATCGTCGGAAACG-----GTGAACATC	288
QY	1051	ACTAACAGTTCCTTCGAGCAGACGGCTCTGCAAGATCTCGCAGCTGAATGCCGATACCTAAC	1110
Db	289	TCGGGCGGGCACCCCTACAAGGCGTATGACAAGTGTTCCAAATCAATGACGCGGGGACG	348
QY	1111	CTGAGGCTTGACAAACGTGAAGGCCAAAGACTTTGGTACTTTTGTACGCACTAACGGCGGT	1170
Db	349	ATCAACATTCGTAACTTCAGGGCCGATGATCATCGGAAGCTGGTTCTGGCGAAGACGGAGGC	408
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RESULT 6
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; Sequence 3, Application US/09198956
; Patent No. 6165769
; GENERAL INFORMATION:
; APPLICANT: Andersen, Lene N.
; APPLICANT: Schulein, Martin
; APPLICANT: Lange, Niels Erik K.
; APPLICANT: Bjornvad, Mads E.
; APPLICANT: Schnorr, Kirk
; TITLE OF INVENTION: Pectin Degrading Enzymes From Bacillus
; TITLE OF INVENTION: Licheniformis
; FILE REFERENCE: 5377.200-US
; CURRENT APPLICATION NUMBER: US/09/198,956
; CURRENT FILING DATE: 1998-11-24
; EARLIER APPLICATION NUMBER: 1344/97
; EARLIER FILING DATE: 1997-11-24
; EARLIER APPLICATION NUMBER: 60/067,240
; EARLIER FILING DATE: 1997-12-02
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Fast-SEQ for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 666
; TYPE: DNA
; ORGANISM: Bacillus licheniformis
US-09-198-956-3

Query Match 5.5%; Score 74.2; DB 3; Length 666;
Best Local Similarity 55.7%; Pred. No. 3e-13;
Matches 142; Conservative 0; Mismatches 113; Indels 0; Gaps 0;

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RESULT 7
US-09-670-141-3
; Sequence 3, Application US/09670141
; Patent No. 6429000
; GENERAL INFORMATION:
; APPLICANT: Andersen, Lene N.
; APPLICANT: Schulein, Martin
; APPLICANT: Lange, Niels Erik K.
; APPLICANT: Bjornvad, Mads E.
; APPLICANT: Schnorr, Kirk
; TITLE OF INVENTION: Pectin Degrading Enzymes From Bacillus
; TITLE OF INVENTION: Licheniformis
; FILE REFERENCE: 5377.200-US
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; CURRENT APPLICATION NUMBER: US/09/670,141
; CURRENT FILING DATE: 2000-09-26
; PRIOR APPLICATION NUMBER: 09/198,956
; PRIOR FILING DATE: 1998-11-24
; PRIOR APPLICATION NUMBER: 1344/97
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/067,240
; PRIOR FILING DATE: 1997-12-02
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Fast-SEQ for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 666
; TYPE: DNA
; ORGANISM: Bacillus licheniformis
US-09-670-141-3

Query Match 5.5%; Score 74.2; DB 3; Length 666;
Best Local Similarity 55.7%; Pred. No. 3e-13;
Matches 142; Conservative 0; Mismatches 113; Indels 0; Gaps 0;

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Db 210 CAAAGTGGAGGATGGTGCAACGCTCAAAAATGTCGTCTGGCGCTCCTGCTGATGG 269
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RESULT 8
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; Sequence 9, Application US/09402668
; Patent No. 6172030
; GENERAL INFORMATION:
; APPLICANT: WADA, Yasunao
; APPLICANT: KASAI, Miyuki
; APPLICANT: SHIKATA, Shitsuw
; APPLICANT: SUZUMATSU, Atsushi
; APPLICANT: KOIKE, Kenzo
; APPLICANT: HATADA, Yuji
; APPLICANT: KOBAYASHI, Tohru
; APPLICANT: ITO, Susumu
; APPLICANT: TSUMADORI, Masaki
; TITLE OF INVENTION: Detergent Composition
; FILE REFERENCE: 2173-0116P
; CURRENT APPLICATION NUMBER: US/09/402,668
; CURRENT FILING DATE: 1998-10-08
; PRIOR APPLICATION NUMBER: 9-091142 JAPAN
; PRIOR FILING DATE: 1997-04-09
; PRIOR APPLICATION NUMBER: 9-242736 JAPAN
; PRIOR FILING DATE: 1997-09-08
; PRIOR APPLICATION NUMBER: PCT/US98/01613
; PRIOR FILING DATE: 1998-04-09
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 9
; LENGTH: 185
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:primer
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Search completed: July 29, 2005, 19:26:08  
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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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4	1344	100.0	1344	15	US-10-010-390-6
5	1344	100.0	1344	17	US-10-441-736-5
6	1344	100.0	1344	20	US-10-847-142-6
7	155.2	11.5	1729	9	US-09-835-684-10

8	155.2	11.5	1729	9	US-09-880-371-10	Sequence 10, Appl
9	155.2	11.5	1729	9	US-09-879-248-13	Sequence 13, Appl
10	155.2	11.5	1729	15	US-10-010-390-10	Sequence 10, Appl
11	155.2	11.5	1729	17	US-10-441-736-13	Sequence 13, Appl
12	155.2	11.5	1729	20	US-10-847-142-10	Sequence 10, Appl
13	155.2	11.5	30365	9	US-09-825-414-1	Sequence 1, Appl
14	155.2	11.5	30365	21	US-10-893-776A-1	Sequence 1, Appl
15	155.2	5.3	828	15	US-10-156-761-6360	Sequence 6360, Ap
16	71.2	5.3	9025608	15	US-10-156-761-1	Sequence 1, Appl
17	55	4.1	495	9	US-09-974-300-2826	Sequence 2826, Ap
18	46.6	3.5	732	20	US-10-653-047-4856	Sequence 4856, Ap
19	45.8	3.4	1080	20	US-10-425-115-129014	Sequence 129014,
20	45.6	3.4	629	19	US-10-437-963-101821	Sequence 101821,
21	43.4	3.2	572	20	US-10-425-113-59106	Sequence 59106, A
22	42.8	3.2	1166	15	US-10-193-003-323	Sequence 323, App
23	42.8	3.2	1166	15	US-10-084-843-328	Sequence 328, App
24	42.8	3.2	1166	24	US-11-028-898-328	Sequence 328, App
25	42.8	3.2	2283	9	US-09-938-842A-1691	Sequence 1691, Ap
26	42.8	3.2	2283	11	US-09-938-842A-1691	Sequence 1691, Ap
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29	42.4	3.2	594	15	US-10-140-472-10	Sequence 10, Appl
30	42.4	3.2	594	15	US-10-141-761-10	Sequence 10, Appl
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35	42.4	3.2	594	17	US-10-141-755-10	Sequence 10, Appl
36	42.4	3.2	594	17	US-10-141-759-10	Sequence 10, Appl
37	42.4	3.2	594	17	US-10-140-805-10	Sequence 10, Appl
38	42.4	3.2	594	17	US-10-140-864-10	Sequence 10, Appl
39	42.4	3.2	594	18	US-10-142-428-10	Sequence 10, Appl
40	41.4	3.1	96597	22	US-10-052-482-103	Sequence 103, App
41	41.2	3.1	354592	22	US-10-737-082-70	Sequence 70, Appl
42	41.2	3.1	354592	22	US-10-765-790-70	Sequence 70, Appl
43	41	3.1	1923	19	US-10-437-963-85199	Sequence 85199, A
44	40.6	3.0	344805	20	US-10-779-271-1	Sequence 1, Appl
45	40.6	3.0	1128	15	US-10-156-761-2339	Sequence 2339, Ap

#### ALIGNMENTS

RESULT 1  
US-09-835-684-6

; Sequence 6, Application US/09835684

; Patent No. US2002001937A1

; GENERAL INFORMATION:

; APPLICANT: Wei, Zhong-Min

; APPLICANT: Qiu, Dewen

; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE

; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR

; TITLE OF INVENTION: DESSICATION

; FILE REFERENCE: 21829/71

; CURRENT APPLICATION NUMBER: US/09/835,684

; PRIOR FILING DATE: 2001-04-16

; PRIOR APPLICATION NUMBER: 60/198,359

; PRIOR FILING DATE: 2000-04-19

; NUMBER OF SEQ IDS: 12

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 6

; LENGTH: 1344

; TYPE: DNA

; ORGANISM: Erwinia amylovora

US-09-835-684-6

Query Match 100.0%; Score 1344; DB 9; Length 1344;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 1344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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*Erwinia amylovora*

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US-09-880-371-6  
; Sequence 6, Application US/09880371  
; Patent No. US20020059658A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: DeRoche, Jay  
; TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC  
; FILE REFERENCE: 21829/91  
; CURRENT APPLICATION NUMBER: US/09/880,371  
; PRIOR FILING DATE: 2001-06-13  
; PRIOR APPLICATION NUMBER: 60/211,585  
; NUMBER OF SEQ ID NOS: 16  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 6  
; LENGTH: 1344  
; TYPE: DNA  
; ORGANISM: Erwinia amylovora  
US-09-880-371-6

APN

Query Match 100.0%; Score 1344; DB 9; Length 1344;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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Qy 961 AATATAGCAATCTGACGTCACCAACGTCGGTGAGGACCGGATTAACGTTAAGCCAAAC 1020  
Db 961 AATATAGCAATCTGACGTCACCAACGTCGGTGAGGACCGGATTAACGTTAAGCCAAAC 1020  
Qy 1021 AGCGCGGCAAAAATCCCACTGTTGAATCACTAAACAGTTTCTTTCGAGACGCTCTGAC 1080  
Db 1021 AGCGCGGCAAAAATCCCACTGTTGAATCACTAAACAGTTTCTTTCGAGACGCTCTGAC 1080  
Qy 1081 AGATCTCGAGTGAATCGGATCTAACTGAGCGTTGACAAAGTGAAGGCGCAAGAC 1140  
Db 1081 AGATCTCGAGTGAATCGGATCTAACTGAGCGTTGACAAAGTGAAGGCGCAAGAC 1140  
Qy 1141 TTTGGTACTTTTACGCACTAACGCGGTCACAGGTTAATCTGGATCTGAATCTGAGC 1200  
Db 1141 TTTGGTACTTTTACGCACTAACGCGGTCACAGGTTAATCTGGATCTGAATCTGAGC 1200  
Qy 1201 CATATCAGCGCAGAGACGGTAAGTTCTCGTTCTTAAAGCGATAGCGGGGCTAAAC 1260  
Db 1201 CATATCAGCGCAGAGACGGTAAGTTCTCGTTCTTAAAGCGATAGCGGGGCTAAAC 1260  
Qy 1261 GTCAATACAGTGAATCTCACTGGGTGATGTTGAAACCACTACAAAGTGCAGATGCC 1320  
Db 1261 GTCAATACAGTGAATCTCACTGGGTGATGTTGAAACCACTACAAAGTGCAGATGCC 1320  
Qy 1321 GCCAACCTGAAGTGGCTGATGA 1344  
Db 1321 GCCAACCTGAAGTGGCTGATGA 1344

RESULT 3  
US-09-879-248-5  
; Sequence 5, Application US/09879248  
; Patent No. US20020062500A1  
; GENERAL INFORMATION:  
; APPLICANT: Fan, Hao  
; APPLICANT: Wei, Zhong-Min  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE  
; THEREOF

ABN

; FILE REFERENCE: 21829/81  
; CURRENT APPLICATION NUMBER: US/09/879, 248  
; PRIOR FILING DATE: 2001-06-12  
; PRIOR APPLICATION NUMBER: 60/212,211  
; PRIOR FILING DATE: 2000-06-16  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 5  
; LENGTH: 1344  
; TYPE: DNA  
; ORGANISM: Erwinia amylovora  
; US-09-879-248-5

Query Match 100.0%; Score 1344; DB 9; Length 1344;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 ATGTCAATTTCTTACGCTTAAACAATAATACCTCGTCTCGCGGGTCTGTTCAGTCCGGG 60  
Db 1 ATGTCAATTTCTTACGCTTAAACAATAATACCTCGTCTCGCGGGTCTGTTCAGTCCGGG 60  
Qy 61 GGGGACAAACGGGCTTGGTGTCTAATATGCAAAATTTCTGCGTTGGGCAACCAACCATCGAT 120  
Db 61 GGGGACAAACGGGCTTGGTGTCTAATATGCAAAATTTCTGCGTTGGGCAACCAACCATCGAT 120  
Qy 121 CGGCAAAACCATTTGAGCAAAATGGCTCAATTTATGCGGGAACCTTTAAAGTCACTGCTATCG 180  
Db 121 CGGCAAAACCATTTGAGCAAAATGGCTCAATTTATGCGGGAACCTTTAAAGTCACTGCTATCG 180  
Qy 181 CCACAATCAGTAAATCGGCAACCGGAGCGGTGGCAATGACAGACTACAGGAGTTGGT 240  
Db 181 CCACAATCAGTAAATCGGCAACCGGAGCGGTGGCAATGACAGACTACAGGAGTTGGT 240  
Qy 241 AACGCTGGCGGCTGAAACGGGAGAAAGGACAGAGCAACCACTCCGCACTCTGACAGT 300  
Db 241 AACGCTGGCGGCTGAAACGGGAGAAAGGACAGAGCAACCACTCCGCACTCTGACAGT 300  
Qy 301 CAGAAATGCTGAGTGAAGTGGCAACACGGGCTGGATCAGGCGCATCAGCCCGATGGC 360  
Db 301 CAGAAATGCTGAGTGAAGTGGCAACACGGGCTGGATCAGGCGCATCAGCCCGATGGC 360  
Qy 361 CAGGCGGGGGGCGAGATCGGCGATAATCTTTACTGAAAGCCATGCTGAAGCTTTATGCA 420  
Db 361 CAGGCGGGGGGCGAGATCGGCGATAATCTTTACTGAAAGCCATGCTGAAGCTTTATGCA 420  
Qy 421 CGCATGATGAGCGGCCAAAGCGATCAGTTTGGCAACCTGGTACGGGCAACCAACAGTGCC 480  
Db 421 CGCATGATGAGCGGCCAAAGCGATCAGTTTGGCAACCTGGTACGGGCAACCAACAGTGCC 480  
Qy 481 TCTTCGGGTACTTCTTCACTGCGGTTCCCTTTTAAACGATCTATCAGGGGGGAAGGCC 540  
Db 481 TCTTCGGGTACTTCTTCACTGCGGTTCCCTTTTAAACGATCTATCAGGGGGGAAGGCC 540  
Qy 541 CTTTCGGCAACTCCCTTCGGCAACTACTCTCCGTCAGTACCTTCTCACCCTCATCC 600  
Db 541 CTTTCGGCAACTCCCTTCGGCAACTACTCTCCGTCAGTACCTTCTCACCCTCATCC 600  
Qy 601 ACGCCAAACGTCCTACTCTACCGCTTGATTTCCCTTCTTCTCCCAACAAAGCAGCGGG 660  
Db 601 ACGCCAAACGTCCTACTCTACCGCTTGATTTCCCTTCTTCTCCCAACAAAGCAGCGGG 660  
Qy 661 GGCAGCACGCGGTAACCGATCATCTGACCTGTTGGTAGCGCGGCATCGGGGCGGA 720  
Db 661 GGCAGCACGCGGTAACCGATCATCTGACCTGTTGGTAGCGCGGCATCGGGGCGGA 720  
Qy 721 AATTGGTGGCTTACCAGCGCGGCGCTAATCAGACGGTGTGATGACACCATATACC 780  
Db 721 AATTGGTGGCTTACCAGCGCGGCGCTAATCAGACGGTGTGATGACACCATATACC 780  
Qy 781 GTGAAAGCGGTGAGTGTGATGCAAGGCAACACCTTACCGCGGTTTCAAGATTA 840  
Db 781 GTGAAAGCGGTGAGTGTGATGCAAGGCAACACCTTACCGCGGTTTCAAGATTA 840

Qy	841	GGCGATGGCGGCCAGTCTGAAAACCAAAACCGCTGTTTATCTATGGAAGACGGTGCCAGC	900
Db	841	GGCGATGGCGGCCAGTCTGAAAACCAAAACCGCTGTTTATCTATGGAAGACGGTGCCAGC	900
Qy	901	CTGAAAACGTCACCATGGGCGACGACGGGGCGGATGGTATTCACTTTTACGGTGTATGCC	960
Db	901	CTGAAAACCGTCACCATGGGCGACGACGGGGCGGATGGTATTCACTTTTACGGTGTATGCC	960
Qy	961	AAAATAGACAATCTGCAGCTCACCAAAGTGGGTGAGGACGCGATTACCGTTTAAAGCCAAAC	1020
Db	961	AAAATAGACAATCTGCAGCTCACCAAAGTGGGTGAGGACGCGATTACCGTTTAAAGCCAAAC	1020
Qy	1021	AGCGCGGCAAAAATCCCGTTTGAATCACTAAACAGTTTCCTTCGAGCAGCGCTCTGAC	1080
Db	1021	AGCGCGGCAAAAATCCCGTTTGAATCACTAAACAGTTTCCTTCGAGCAGCGCTCTGAC	1080
Qy	1081	AAGATCCTGCAGCTGAATGCCGATCTAAACCTGAGCGTTGACAAAGTGAAAGGCCAAAGAC	1140
Db	1081	AAGATCCTGCAGCTGAATGCCGATCTAAACCTGAGCGTTGACAAAGTGAAAGGCCAAAGAC	1140
Qy	1141	TTTGGTACTTTTGACCACTAAACGGCGGCTCAACAGGTAACCTGGGATCTGAATCTGAGC	1200
Db	1141	TTTGGTACTTTTGACCACTAAACGGCGGCTCAACAGGTAACCTGGGATCTGAATCTGAGC	1200
Qy	1201	CATATCAGCGCAGAAAGCGGTAAAGTCTCTCGTTTAAAGCGGATACCGAGGGCGCTAAAC	1260
Db	1201	CATATCAGCGCAGAAAGCGGTAAAGTCTCTCGTTTAAAGCGGATACCGAGGGCGCTAAAC	1260
Qy	1261	GTCAAATACCAAGTGATATCTCACTGGGTGATGTTGAAAACCACTACAAGGTGCCGATGTC	1320
Db	1261	GTCAAATACCAAGTGATATCTCACTGGGTGATGTTGAAAACCACTACAAGGTGCCGATGTC	1320
Qy	1321	GCCAACTGAAGGTGGCTGAATGA	1344
Db	1321	GCCAACTGAAGGTGGCTGAATGA	1344

## RESULT 4

US-10-010-390-6  
; Sequence 6, Application US/10010390  
; Publication No. US20030104979A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Leon, Ernesto  
; APPLICANT: Oviedo, Agustín  
; TITLE OF INVENTION: METHODS OF INHIBITING DESICCATION OF CUTTINGS REMOVED  
; TITLE OF INVENTION: FROM ORNAMENTAL PLANTS  
; FILE REFERENCE: 21829/111  
; CURRENT APPLICATION NUMBER: US/10/010,390  
; CURRENT FILING DATE: 2001-11-05  
; PRIOR APPLICATION NUMBER: 60/248,169  
; PRIOR FILING DATE: 2000-11-13  
; NUMBER OF SEQ ID NOS: 14  
; SOFTWARE: PatentIn ver. 2.1  
; SEQ ID NO 6  
; LENGTH: 1344  
; TYPE: DNA  
; ORGANISM: Erwinia amylovora  
US-10-010-390-6

*check bagged  
for saving paper*

	Query Match	100.0%	Score 1344;	DB 15;	Length 1344;
	Best Local Similarity	100.0%;	Pred. No. 0;	Mismatches 0;	Indels 0; Gaps 0;
	Matches 1344;	Conservative 0;			
Qy	1	ATGTCAATTCTTAGCCTTAACAACAAATACCTCGTCTCGCGGGTCTGTTCCAGTCGGG	60		
Dd	1	ATGTCAATTCTTAGCCTTAACAACAAATACCTCGTCTCGCGGGTCTGTTCCAGTCGGG	60		
Qy	61	GGGGACAACGGGCTTGTTGGTCTAATGCAAAATTCGCGTTGGGGCAACAACCATCGAT	120		
Dd	61	GGGGACAACGGGCTTGTTGGTCTAATGCAAAATTCGCGTTGGGGCAACAACCATCGAT	120		
Qy	121	CGGGCAACCATTGAGCAAATGGCTCAATTATTGGCGGAACTGTATAAGTCACTGCCTATCG	180		

2 hours bagged and  
boxed

Db 1201 CATATCAGCCAGACGCGTAACTCTCGTTAAAGCGATACGAGGGCTAAAC 1260  
Qy 1261 GTCAATACCAAGTATCTCACTGGGTGATGTTGAAACCACTACAAAGTCCGATGCC 1320  
Db 1261 GTCAATACCAAGTATCTCACTGGGTGATGTTGAAACCACTACAAAGTCCGATGCC 1320  
Qy 1321 GCCAACCCTGAAGTGGCTGAATGA 1344  
Db 1321 GCCAACCCTGAAGTGGCTGAATGA 1344

RESULT 5

US-10-441-736-5  
; Sequence 5, Application US/10441736  
; Publication No. US20040016029A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Schading, Richard L.  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR-INDUCED STRESS  
; FILE REFERENCE: 21829/203 (EBC-003)  
; CURRENT APPLICATION NUMBER: US/10/441.736  
; PRIOR FILING DATE: 2003-05-20  
; PRIOR FILING DATE: 1998-11-05  
; PRIOR FILING DATE: 1999-11-02  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 5  
; LENGTH: 1344  
; TYPE: DNA  
; ORGANISM: Erwinia amylovora  
US-10-441-736-5

Query Match 100.0%; Score 1344; DB 17; Length 1344;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 ATGTCAATCTTACGCTTAAACAATACTCGTCTCGCGGGTCTGTTCCAGTCCGGG 60  
Db 1 ATGTCAATCTTACGCTTAAACAATACTCGTCTCGCGGGTCTGTTCCAGTCCGGG 60  
Qy 61 GGGGACAAACGGGCTGGTGTGATATGCAAAATTCGCTGGGTGGGCAACCAACCATCGAT 120  
Db 61 GGGGACAAACGGGCTGGTGTGATATGCAAAATTCGCTGGGTGGGCAACCAACCATCGAT 120  
Qy 121 CGGCAACCAATTCGCAAAATTCGCTAAATTTGGCGGAATCTGTAAGTCACTGCTATCG 180  
Db 121 CGGCAACCAATTCGCAAAATTCGCTAAATTTGGCGGAATCTGTAAGTCACTGCTATCG 180  
Qy 181 CCACAAATCAGGTAAATGGCGCAACCGGAGCGGTGGCAATGACAGACTACAGGAGTTGGT 240  
Db 181 CCACAAATCAGGTAAATGGCGCAACCGGAGCGGTGGCAATGACAGACTACAGGAGTTGGT 240  
Qy 241 AACGCTGGCGGCTGAACCGGCAAGAAAGGACAGCAAGCAACCACTCGCAGTCTGACAGT 300  
Db 241 AACGCTGGCGGCTGAACCGGCAAGAAAGGACAGCAAGCAACCACTCGCAGTCTGACAGT 300  
Qy 301 CAGAACATGCTGATGATGAGTGGGCAACCAACCGGCTGGATCAGGCCATCAGCCCGATGGC 360  
Db 301 CAGAACATGCTGATGATGAGTGGGCAACCAACCGGCTGGATCAGGCCATCAGCCCGATGGC 360  
Qy 361 CAGGCGGCGGCGAGATCGCGGATAATCTTTACTGAAAGCCATGCTGAAGCTTATTGCA 420  
Db 361 CAGGCGGCGGCGAGATCGCGGATAATCTTTACTGAAAGCCATGCTGAAGCTTATTGCA 420  
Qy 421 CGCATGATGACGCCCAAGCATCAGTTTGGCAACCTTGTACGGGCAACCAACAGTGGC 480  
Db 421 CGCATGATGACGCCCAAGCATCAGTTTGGCAACCTTGTACGGGCAACCAACAGTGGC 480  
Qy 481 TCTTCGGTACTTCTCATCTGGGGTTCCTTTTAAACGATCTATCAGGGGGGAAGGCC 540

Db 481 TCTTCGGTACTTCTCATCTGGGGTTCCTTTTAAACGATCTATCAGGGGGGAAGGCC 540  
Qy 541 CTTTCGGCAACTCCCTTCCGGCAACTACTCTCCGTCAGTACTCTTCAACCCCATCC 600  
Db 541 CTTTCGGCAACTCCCTTCCGGCAACTACTCTCCGTCAGTACTCTTCAACCCCATCC 600  
Qy 601 ACGCCAAGTCCCTTCACTACCGCTTGGTTCCTTCTCCACAAAGCAGCCGG 660  
Db 601 ACGCCAAGTCCCTTCACTACCGCTTGGTTCCTTCTCCACAAAGCAGCCGG 660  
Qy 661 GGCAGCAGCCGCTTAAACCGATCATCTGACCTTGGTAGCGGGCATCGGGCCGGA 720  
Db 661 GGCAGCAGCCGCTTAAACCGATCATCTGACCTTGGTAGCGGGCATCGGGCCGGA 720  
Qy 721 AATTTCGGTGGCTTCAACAGCGCGCTTAATCAGACGCTGTCATGATGACCATTA 780  
Db 721 AATTTCGGTGGCTTCAACAGCGCGCTTAATCAGACGCTGTCATGATGACCATTA 780  
Qy 781 GTCAAAAGCGGTCAGGTGTTGATGCAAGGCAAAACCTTACCGCGGTTCAAGATTA 840  
Db 781 GTCAAAAGCGGTCAGGTGTTGATGCAAGGCAAAACCTTACCGCGGTTCAAGATTA 840  
Qy 841 GGCAGTGGCGGCGAGTCTGAAACCAAGAACCGCTGTTTATCTGGAAGCGTGCAGC 900  
Db 841 GGCAGTGGCGGCGAGTCTGAAACCAAGAACCGCTGTTTATCTGGAAGCGTGCAGC 900  
Qy 901 CTGAAAAACGTCACCATGGCGCAGCAGCGGGCGGATGTTTATCTTTCAGGTGATGCC 960  
Db 901 CTGAAAAACGTCACCATGGCGCAGCAGCGGGCGGATGTTTATCTTTCAGGTGATGCC 960  
Qy 961 AAAATAGACAAATCTGCACGTCACCAACGCTGGGTGAGACCGGATTAACCGTAAAGCCAAAC 1020  
Db 961 AAAATAGACAAATCTGCACGTCACCAACGCTGGGTGAGACCGGATTAACCGTAAAGCCAAAC 1020  
Qy 1021 AGCGCGGCAAAATCCCACTGTTGAAATCACTAAACAGTTCCTTCGAGCAGCGCTCTGAC 1080  
Db 1021 AGCGCGGCAAAATCCCACTGTTGAAATCACTAAACAGTTCCTTCGAGCAGCGCTCTGAC 1080  
Qy 1081 AAGATCTGCGAGTGAATGCCGATCTAACTGAGCGTTTGACAACTGTAAGGCCAAAGAC 1140  
Db 1081 AAGATCTGCGAGTGAATGCCGATCTAACTGAGCGTTTGACAACTGTAAGGCCAAAGAC 1140  
Qy 1141 TTTGGTACTTTTGTAGCAGTAAACCGGCTCAACAGGTAACCTGGGATCTGAATCTGAGC 1200  
Db 1141 TTTGGTACTTTTGTAGCAGTAAACCGGCTCAACAGGTAACCTGGGATCTGAATCTGAGC 1200  
Qy 1201 CATATCAGCGCAGACGCTGATGTTCTCGTTCTTAAAGCGATAGCGGGCTAAAC 1260  
Db 1201 CATATCAGCGCAGACGCTGATGTTCTCGTTCTTAAAGCGATAGCGGGCTAAAC 1260  
Qy 1261 GTCAATACCAAGTATCTCACTGGGTGATGTTGAAACCACTACAAAGTCCGATGCC 1320  
Db 1261 GTCAATACCAAGTATCTCACTGGGTGATGTTGAAACCACTACAAAGTCCGATGCC 1320  
Qy 1321 GCCAACCCTGAAGTGGCTGAATGA 1344  
Db 1321 GCCAACCCTGAAGTGGCTGAATGA 1344

RESULT 6

US-10-847-142-6  
; Sequence 6, Application US/10847142  
; Publication No. US20040265442A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Qiu, Dewen  
; APPLICANT: Remick, Dean  
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE  
; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR  
; TITLE OF INVENTION: DESICCATION  
; FILE REFERENCE: 21829/197  
; CURRENT APPLICATION NUMBER: US/10/847,142  
; CURRENT FILING DATE: 2004-05-17

*web of 16 only*  
*page 5*

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; PRIOR APPLICATION NUMBER: 60/198,359
; PRIOR FILING DATE: 2000-04-19
; PRIOR APPLICATION NUMBER: 09/835,684
; PRIOR FILING DATE: 2001-04-16
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 6
; LENGTH: 1344
; TYPE: DNA
; ORGANISM: Erwinia amylovora
US-10-847-142-6

Query Match      100.0%; Score 1344; DB 20; Length 1344;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGTCAAATCTTACGCTTAAACAACAATACCTCGTCTCGCGGGTCTGTTCCAGTCCGGG 60
DB 1 ATGTCAAATCTTACGCTTAAACAACAATACCTCGTCTCGCGGGTCTGTTCCAGTCCGGG 60

QY 61 GGGGCAACCGGGCTTGGTGTATATGCAATTTCTCGTTGGGCAACAAACCCATCGAT 120
DB 61 GGGGCAACCGGGCTTGGTGTATATGCAATTTCTCGTTGGGCAACAAACCCATCGAT 120

QY 121 CGGCAAAACCATTTGAGCAAAATGGCTCAATTAATTTGGCGGAACTGTTAAAGTCACTGCTATCG 180
DB 121 CGGCAAAACCATTTGAGCAAAATGGCTCAATTAATTTGGCGGAACTGTTAAAGTCACTGCTATCG 180

QY 181 CCAATCAAGTAAATCGGCAACCGGAGCGGTTGGCAATGACAGACTACAGGAGTTGTT 240
DB 181 CCAATCAAGTAAATCGGCAACCGGAGCGGTTGGCAATGACAGACTACAGGAGTTGTT 240

QY 241 AACGCTGGCGGCTGAAACGCAAGCAACGACGAGGACCACTCGGAGTGTGACAT 300
DB 241 AACGCTGGCGGCTGAAACGCAAGCAACGACGAGGACCACTCGGAGTGTGACAT 300

QY 301 CAGAACATGCTGAGTGAAGTGGGCAACAAACGGGCTGGATCAGGCCATCACGCCGATGGC 360
DB 301 CAGAACATGCTGAGTGAAGTGGGCAACAAACGGGCTGGATCAGGCCATCACGCCGATGGC 360

QY 361 CAGGGCGGGGAGATCGGCGAATATCTTTACTGAAAGCCATGCTGAAGCTTATTGCA 420
DB 361 CAGGGCGGGGAGATCGGCGAATATCTTTACTGAAAGCCATGCTGAAGCTTATTGCA 420

QY 421 CGCATATGAGCGGCCAAACGATAGTTGGCCAACTGTTACGCGGCAACACAGTGGC 480
DB 421 CGCATATGAGCGGCCAAACGATAGTTGGCCAACTGTTACGCGGCAACACAGTGGC 480

QY 481 TCTTCCGGTACTTCTTTCATCTGCGGTTCCCTTTTAAAGATCTATCAGGGGGGAAGGCC 540
DB 481 TCTTCCGGTACTTCTTTCATCTGCGGTTCCCTTTTAAAGATCTATCAGGGGGGAAGGCC 540

QY 541 CTTTCGGGAACTCCCTTTCGGGCAACTACTCTCCGTCAGTACCTTCTCACCCCCATCC 600
DB 541 CTTTCGGGAACTCCCTTTCGGGCAACTACTCTCCGTCAGTACCTTCTCACCCCCATCC 600

QY 601 ACGCCAAGCTCCCTACCTACCGCTTGAATTCCTTCTCCCAACAAAGCAGCGGG 660
DB 601 ACGCCAAGCTCCCTACCTACCGCTTGAATTCCTTCTCCCAACAAAGCAGCGGG 660

QY 661 GGCAGACGCGGGTAAACCGATCATCTGACCTCTGTTGGTAGCGCGGCATCGGGGCGGA 720
DB 661 GGCAGACGCGGGTAAACCGATCATCTGACCTCTGTTGGTAGCGCGGCATCGGGGCGGA 720

QY 721 AATTCCGGTGGCTTCAACGCGCGGCTAATFAGACGGTGTGATGACACCATATAC 780
DB 721 AATTCCGGTGGCTTCAACGCGCGGCTAATFAGACGGTGTGATGACACCATATAC 780

QY 781 GTCAAAAGCGGCTCAGGTGTTGATGCAAGGACAAACCTTCAACCGCGGTTTCAAGATTA 840
DB 781 GTCAAAAGCGGCTCAGGTGTTGATGCAAGGACAAACCTTCAACCGCGGTTTCAAGATTA 840

QY 841 GGCATGGCGGCGGCTGTAAGAACCAAGAACCGCTGTTTATCTGGAAGACGGTGCAGC 900
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## RESULT 7

US-09-835-684-10  
; Sequence 10, Application US/09835684  
; Patent No. US20020019337A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Qiu, Dewen  
; APPLICANT: Remick, Dean  
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE  
; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR  
; TITLE OF INVENTION: DSSICATION  
; FILE REFERENCE: 21829/71  
; CURRENT APPLICATION NUMBER: US/09/835,684  
; CURRENT FILING DATE: 2001-04-16  
; PRIOR APPLICATION NUMBER: 60/198,359  
; PRIOR FILING DATE: 2000-04-19  
; NUMBER OF SEQ ID NOS: 12  
; SOFTWARE: Patent In Ver. 2.1  
; SEQ ID NO 10  
; LENGTH: 1729  
; TYPE: DNA  
; ORGANISM: Pseudomonas syringae  
US-09-835-684-10

Query Match 11.5%; Score 155.2; DB 9; Length 1729;  
Best Local Similarity 57.1%; Pred. No. 1-7e-40;  
Matches 330; Conservative 0; Mismatches 233; Indels 15; Gaps 2;  
QY 745 GGGCTAATCAGAGGTGCTGCATGACACCATACCGTGAAGCGGGTCAAGTGTGAT 804  
DB 1079 GCGGCAAGTCAATGTGTGAAAGACACCATCAAGTCCGGCTGGCGAAGTCTTTGAC 1138  
QY 805 GCAAGGACAAACCTTCAACCGGTTTACAGAAATAGGCGATGGCGGCGAGTCTGAAAC 864  
DB 1139 GCGGCGGCAACCTTCACTCCGCAAACTATGCGGTAACCGAGACCAAGGCGGCAAT 1198  
QY 865 CAGAAACCGCTGTTTATATCTGGAAGACGGTGCAGCTGAAACCGTCAACCATGGCGAC 924



Db 1199 CAGAGCCGATGTTGAGCTGGCTGAAGGCGCTACGTTGAAGATGTGAACCTGGGTGAG 1258  
Qy 925 GACGGGCGGATGATTCATCTTTTACG-----GTGATGCCAAAATAGACAAT 972  
Db 1259 AACGAGGTGATGGCATCCACGTGAAGGCCAAAACGCTCAGGAAGTCACCATTTGACAAC 1318  
Qy 973 CTGACGTACCAACGTTGGGTGAGGAGCGCATACGTTAAGCCAAACAGCGGGGCGAAA 1032  
Db 1319 GTGCATGCCAGAACGTCGGTGAAGACCTGATTAACGTTCAAGGCGAGGAGCGCAGCG 1378  
Qy 1033 AATCCCACTGTAATCACTAACAGTTCTTCGAGCACGCCCTCTGACAAGATCCTGCGAG 1092  
Db 1379 GTCACTAATCTGAACATCAAGAACAGCAGTGCCTAAGGTGCAGACGACGAAGTTGTCCAG 1438  
Qy 1093 CTGAATGCCGATACTAACCTGAGCGTTGACAAAGTGAAGGCCAAAAGACTTTGGTACTTTT 1152  
Db 1439 CTCAAGCCCAACACTCACTTTGAAAATCGACAACCTTCAAGGCCGACGATTTTCGACGATG 1498  
Qy 1153 GTAGGCACTAACCGCGTCAACAG---GGTAATCGGATCTGAATCTGAGCCATATCAGC 1209  
Db 1499 GTTCGACCAACCGTGGCAAGCTTTGATGACATGAGCATCGAGCTGAACCGCATCGAA 1558  
Qy 1210 GCAGAAGACGTTAAGTTCTCGTTTAAAGCGATAGCGAGGGCTTAAACGTTCAATACC 1269  
Db 1559 GCTAACCAACGCGAAGTTCCGCTGGTGAAGGCGACAGTGCATCTGAAGCTGGCAACG 1618  
Qy 1270 AGTGATATCTCACTGGGTGATGTTGAAAACCACTACAA 1307  
Db 1619 GGCAACATCGCCATGACCGACGTCAAAACACGCTACGA 1656

## RESULT 8

US-09-880-371-10  
; Sequence 10, Application US/09880371  
; Patent No. US20020059658A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Derocher, Jay  
; TITLE OF INVENTION: METHODS OF IMPROVING THE EFFECTIVENESS OF TRANSGENIC  
; TITLE OF INVENTION: PLANTS  
; FILE REFERENCE: 21829/91  
; CURRENT APPLICATION NUMBER: US/09/880,371  
; CURRENT FILING DATE: 2001-06-13  
; PRIOR APPLICATION NUMBER: 60/211,585  
; PRIOR FILING DATE: 2000-06-15  
; NUMBER OF SEQ ID NOS: 16  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 10  
; LENGTH: 1729  
; TYPE: DNA  
; ORGANISM: Pseudomonas syringae  
US-09-880-371-10

Query Match 11.5%; Score 155.2; DB 9; Length 1729;  
Best Local Similarity 57.1%; Pred. No. 1.7e-40;  
Matches 330; Conservative 0; Mismatches 233; Indels 15; Gaps 2;  
Qy 745 GCGCTAATCAGACGGTGTGTCATGACACCATTAACCGTGAAGCGGTGAGGTGTTTGTAT 804  
Db 1079 GCGGCAAGATCAATGTGTGAAGACACCATCAAGTCCGCGCTGCGGAAGTCTTTGAC 1138  
Qy 805 GGCAAGGACAAACCTTTACCGCGGTTCAGAAATTAGCGCATGCGGCCAGTCTGAAAAC 864  
Db 1139 GGCACGGCGCAACCTTCACTGCGCAAAATCTATGGTAAACGAGACCGAGGCGAAAAT 1198  
Qy 865 CAGAAACCGCTGTTTATCTGGAAGACGGTCCAGCTGAAAACGTCACCATGGGCGAC 924  
Db 1199 CAGAAGCCCATGTTTCGAGCTGGCTGAAGGCGCTACGTTGAAGAATGTGAACCTGGGTGAG 1258  
Qy 925 GACGGGCGGATGTTTATCTTTTACG-----GTGATGCCAAAATAGACAAT 972  
Db 1259 AACGAGTGCATGGCATCCACGTGAAGCCAAAACGCTCAGGAAGTCACCATTTGACAAC 1318  
Qy 973 CTGACGTACCAACGTTGGGTGAGGAGCGGATTAACGTTAAGCCAAAACAGCGGGGCGAAA 1032  
Db 1319 GTGCATGCCAGAACGTCGGTGAAGACCTGATTAACGTTCAAGGCGAGGAGCGCAGCG 1378  
Qy 925 GACGGGCGGATGTTTATCTTTTACG-----GTGATGCCAAAATAGACAAT 972  
Db 1259 AACGAGTGCATGGCATCCACGTGAAGCCAAAACGCTCAGGAAGTCACCATTTGACAAC 1318

Qy 973 CTGACGTACCAACGTTGGGTGAGGAGCGCATTAACGTTAAGCCAAACAGCGGGGCGAAA 1032  
Db 1319 GTGCATGCCAGAACGTCGGTGAAGACCTGATTAACGTTCAAGGCGAGGAGCGCAGCG 1378  
Qy 1033 AATCCCACTGTAATCACTAACAGTTCTTCGAGCACGCCCTCTGACAAGATCCTGCGAG 1092  
Db 1379 GTCACTAATCTGAACATCAAGAACAGCAGTGCCTAAGGTGCAGACGACGAAGTTGTCCAG 1438  
Qy 1093 CTGAATGCCGATACTAACCTGAGCGTTGACAAAGTGAAGGCCAAAAGACTTTGGTACTTTT 1152  
Db 1439 CTCAAGCCCAACACTCACTTTGAAAATCGACAACCTTCAAGGCCGACGATTTTCGACGATG 1498  
Qy 1153 GTAGGCACTAACCGCGTCAACAG---GGTAATCGGATCTGAATCTGAGCCATATCAGC 1209  
Db 1499 GTTCGACCAACCGTGGCAAGCTTTGATGACATGAGCATCGAGCTGAACCGCATCGAA 1558  
Qy 1210 GCAGAAGACGTTAAGTTCTCGTTTAAAGCGATAGCGAGGGCTTAAACGTTCAATACC 1269  
Db 1559 GCTAACCAACGCGAAGTTCCGCTGGTGAAGGCGACAGTGCATCTGAAGCTGGCAACG 1618  
Qy 1270 AGTGATATCTCACTGGGTGATGTTGAAAACCACTACAA 1307  
Db 1619 GGCAACATCGCCATGACCGACGTCAAAACACGCTACGA 1656

## RESULT 9

US-09-879-248-13  
; Sequence 13, Application US/09879248  
; Patent No. US20020062500A1  
; GENERAL INFORMATION:  
; APPLICANT: Fan, Hao  
; APPLICANT: Wei, Zhong-Min  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITING DOMAINS AND USE  
; TITLE OF INVENTION: THEREOF  
; FILE REFERENCE: 21829/81  
; CURRENT APPLICATION NUMBER: US/09/879,248  
; CURRENT FILING DATE: 2001-06-12  
; PRIOR APPLICATION NUMBER: 60/212,211  
; PRIOR FILING DATE: 2000-06-16  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 13  
; LENGTH: 1729  
; TYPE: DNA  
; ORGANISM: Pseudomonas syringae  
US-09-879-248-13

Query Match 11.5%; Score 155.2; DB 9; Length 1729;  
Best Local Similarity 57.1%; Pred. No. 1.7e-40;  
Matches 330; Conservative 0; Mismatches 233; Indels 15; Gaps 2;  
Qy 745 GCGCTAATCAGACGGTGTGTCATGACACCATTAACCGTGAAGCGGTGAGGTGTTTGTAT 804  
Db 1079 GCGGCAAGATCAATGTGTGAAGACACCATCAAGTCCGCGCTGCGGAAGTCTTTGAC 1138  
Qy 805 GGCAAGGACAAACCTTTACCGCGGTTCAGAAATTAGCGCATGCGGCCAGTCTGAAAAC 864  
Db 1139 GGCACGGCGCAACCTTCACTGCGCAAAATCTATGGTAAACGAGACCGAGGCGAAAAT 1198  
Qy 865 CAGAAACCGCTGTTTATCTGGAAGACGGTCCAGCTGAAAACGTCACCATGGGCGAC 924  
Db 1199 CAGAAGCCCATGTTTCGAGCTGGCTGAAGGCGCTACGTTGAAGAATGTGAACCTGGGTGAG 1258  
Qy 925 GACGGGCGGATGTTTATCTTTTACG-----GTGATGCCAAAATAGACAAT 972  
Db 1259 AACGAGTGCATGGCATCCACGTGAAGCCAAAACGCTCAGGAAGTCACCATTTGACAAC 1318  
Qy 973 CTGACGTACCAACGTTGGGTGAGGAGCGGATTAACGTTAAGCCAAAACAGCGGGGCGAAA 1032  
Db 1319 GTGCATGCCAGAACGTCGGTGAAGACCTGATTAACGTTCAAGGCGAGGAGCGCAGCG 1378  
Qy 1033 AATCCCACTGTAATCACTAACAGTTCTTCGAGCACGCCCTCTGACAAGATCCTGCGAG 1092

Db 1379 GTCACTAAATCTGAACATCAAGAACAGCAGTGCCTCAAGAGTGCACGACCAAGGTTGTCCAG 1438  
QY 1093 CTGAATGCCGATACCTACCTGAGCGTTGCAACGTTGAAGCCAAAGACCTTTGTACTTTT 1152  
Db 1439 CTCACGCCCAACACTCACTTGAATTCGACAACTTCAAGGCCGACGATTTCCGCGACGATG 1498  
QY 1153 GTACGCACTAACGGCGTCAACAG---GGTAACTGGGATCTGAATCTGAGCCATATCAGC 1209  
Db 1499 GTTCGACCAACGCGTGCAGCAGTTTGTGATGACATGAGCATGAGCTGAACGGCATCGAA 1558  
QY 1210 GCAGAGACGCGTAAAGTTCTCGTTTCTGTTTAAAGCGATAGCGGGGCTAAACGTCATATACC 1269  
Db 1559 GCTAACACCGCAAGTTCGCCCTGTTGAAAGGACAGTGCAGATCTGAAGCTGGCAACG 1618  
QY 1270 AGTGATATCTCACTGGGTGATGTTGAAAACCACTACAA 1307  
Db 1619 GGCAACATCGCCATGACCGACGTCAAAACACGCTACGA 1656

## RESULT 10

US-10-010-390-10  
; Sequence 10, Application US/10010390  
; Publication No. US20030104979A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Leon, Ernesto  
; APPLICANT: Oviedo, Agustín  
; TITLE OF INVENTION: METHODS OF INHIBITING DESICCATION OF CUTTINGS REMOVED  
; FILE REFERENCE: 21829/111  
; CURRENT APPLICATION NUMBER: US/10/010,390  
; PRIOR FILING DATE: 2001-11-05  
; PRIOR APPLICATION NUMBER: 60/248,169  
; NUMBER OF SEQ ID NOS: 14  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 10  
; LENGTH: 1729  
; TYPE: DNA  
; ORGANISM: Pseudomonas syringae  
US-10-010-390-10

Query Match 11.5%; Score 155.2; DB 15; Length 1729;  
Best Local Similarity 57.1%; Pred. No. 1.7e-40;  
Matches 330; Conservative 0; Mismatches 233; Indels 15; Gaps 2;  
QY 745 GCGCGTAATCAGACGGTGTGTCATGACACCATTAACCGTGAAGCGGGTCAGGTTTGAT 804  
Db 1079 GCCGGCAAGATCAATGTGGTGAAGACACCATCAAGTCCGGCTGGCGAAGTCTTTGAC 1138  
QY 805 GGCAAGGACAAACCTTCACTGCGGCAAAATCTATGGGTAAACGAGACCCAGGCGGCAAAAT 1198  
Db 1139 GCGCGCAAGATCAATGTGGTGAAGACACCATCAAGTCCGGCTGGCGAAGTCTTTGAC 1138  
QY 865 GCAAGAGGACAAACCTTCACTGCGGCAAAATCTATGGGTAAACGAGACCCAGGCGGCAAAAT 1198  
Db 1139 GCGCGCAAGATCAATGTGGTGAAGACACCATCAAGTCCGGCTGGCGAAGTCTTTGAC 1138  
QY 865 GCAAGAGGACAAACCTTCACTGCGGCAAAATCTATGGGTAAACGAGACCCAGGCGGCAAAAT 1198  
Db 1139 GCGCGCAAGATCAATGTGGTGAAGACACCATCAAGTCCGGCTGGCGAAGTCTTTGAC 1138  
QY 925 GACGGGCGGATGGTATTCATCTTTTACG-----GTGATGCCAAAATAGACAAT 972  
Db 1259 AACGAGTTCGATGGCATCCACGTGAAGCCAAAACGCTCAGGAAGTCCACATTTGACAAC 1318  
QY 973 CTGACGTCACCAACGTTGGTGAAGCGGATTAACCGTTTAAGCCAAACAGCGCGGCAAA 1032  
Db 1319 GTGCATGCCAGAACGTCGGTGAAGACCTGATTAACCGTTCAAGGGCAGGAGCGCAGCG 1378  
QY 1033 AAATCCACGTTGAAATCACTAACAGTTCCTTCGAGCACGCCCTCTGACAAGATCTCTGCAG 1092  
Db 1379 GTCACTTAATCTGAACATCAAGAACACGATGTCGCAAGGTCGACACCAAGGTTGTCCAG 1438  
QY 1093 CTGAATGCCGATACCTAACCTGAGCGTTGACACGTTGACAGCCAAAGACCTTTGTACTTTT 1152  
Db 1439 CTCACGCCCAACACTCACTTGAATTCGACAACTTCAAGGCCGACGATTTCCGCGACGATG 1498  
QY 1093 CTGAATGCCGATACCTAACCTGAGCGTTGACACGTTGACAGCCAAAGACCTTTGTACTTTT 1152

Db 1439 CTCACGCCCAACACTCACTTGAATTCGACAACTTCAAGGCCGACGATTTCCGCGACGATG 1498  
QY 1153 GTACGCACTAACGGCGTCAACAG---GGTAACTGGGATCTGAATCTGAGCCATATCAGC 1209  
Db 1499 GTTCGACCAACGCGTGCAGCAGTTTGTGATGACATGAGCATGAGCTGAACGGCATCGAA 1558  
QY 1210 GCAGAGACGCGTAAAGTTCTCGTTTCTGTTTAAAGCGATAGCGGGGCTAAACGTCATATACC 1269  
Db 1559 GCTAACACCGCAAGTTCGCCCTGTTGAAAGGACAGTGCAGATCTGAAGCTGGCAACG 1618  
QY 1270 AGTGATATCTCACTGGGTGATGTTGAAAACCACTACAA 1307  
Db 1619 GGCAACATCGCCATGACCGACGTCAAAACACGCTACGA 1656

## RESULT 11

US-10-441-736-13  
; Sequence 13, Application US/10441736  
; Publication No. US20040016029A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Schading, Richard L.  
; TITLE OF INVENTION: HYPERSENSITIVE RESPONSE ELICITOR-INDUCED STRESS  
; FILE REFERENCE: 21829/203 (EBC-003)  
; CURRENT APPLICATION NUMBER: US/10/441,736  
; PRIOR FILING DATE: 2003-05-20  
; PRIOR APPLICATION NUMBER: 60/107,243  
; PRIOR FILING DATE: 1998-11-05  
; PRIOR APPLICATION NUMBER: 09/431,614  
; PRIOR FILING DATE: 1999-11-02  
; NUMBER OF SEQ ID NOS: 18  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 13  
; LENGTH: 1729  
; TYPE: DNA  
; ORGANISM: Pseudomonas syringae  
US-10-441-736-13

Query Match 11.5%; Score 155.2; DB 17; Length 1729;  
Best Local Similarity 57.1%; Pred. No. 1.7e-40;  
Matches 330; Conservative 0; Mismatches 233; Indels 15; Gaps 2;  
QY 745 GCGCGTAATCAGACGGTGTGTCATGACACCATTAACCGTGAAGCGGGTCAGGTTTGAT 804  
Db 1079 GCCGGCAAGATCAATGTGGTGAAGACACCATCAAGTCCGGCTGGCGAAGTCTTTGAC 1138  
QY 805 GGCAAGGACAAACCTTCACTGCGGCAAAATCTATGGGTAAACGAGACCCAGGCGGCAAAAT 1198  
Db 1139 GCGCGCAAGATCAATGTGGTGAAGACACCATCAAGTCCGGCTGGCGAAGTCTTTGAC 1138  
QY 865 GCAAGAGGACAAACCTTCACTGCGGCAAAATCTATGGGTAAACGAGACCCAGGCGGCAAAAT 1198  
Db 1139 GCGCGCAAGATCAATGTGGTGAAGACACCATCAAGTCCGGCTGGCGAAGTCTTTGAC 1138  
QY 865 GCAAGAGGACAAACCTTCACTGCGGCAAAATCTATGGGTAAACGAGACCCAGGCGGCAAAAT 1198  
Db 1139 GCGCGCAAGATCAATGTGGTGAAGACACCATCAAGTCCGGCTGGCGAAGTCTTTGAC 1138  
QY 925 GACGGGCGGATGGTATTCATCTTTTACG-----GTGATGCCAAAATAGACAAT 972  
Db 1259 AACGAGTTCGATGGCATCCACGTGAAGCCAAAACGCTCAGGAAGTCCACATTTGACAAC 1318  
QY 973 CTGACGTCACCAACGTTGGTGAAGCGGATTAACCGTTTAAGCCAAACAGCGCGGCAAA 1032  
Db 1319 GTGCATGCCAGAACGTCGGTGAAGACCTGATTAACCGTTCAAGGGCAGGAGCGCAGCG 1378  
QY 1033 AAATCCACGTTGAAATCACTAACAGTTCCTTCGAGCACGCCCTCTGACAAGATCTCTGCAG 1092  
Db 1379 GTCACTTAATCTGAACATCAAGAACACGATGTCGCAAGGTCGACACCAAGGTTGTCCAG 1438  
QY 1093 CTGAATGCCGATACCTAACCTGAGCGTTGACACGTTGACAGCCAAAGACCTTTGTACTTTT 1152  
Db 1439 CTCACGCCCAACACTCACTTGAATTCGACAACTTCAAGGCCGACGATTTCCGCGACGATG 1498  
QY 1153 GTACGCACTAACGGCGGTCAACAG---GGTAACTGGGATCTGAATCTGAGCCATATCAGC 1209

Db 1499 GTTCGACCAACGGTGCAGCAGTTTGTATGACATGAGCATCGAGCTGAACGGCATCGAA 1558  
Qy 1210 GCAGAAGACGGTAAGTTCTCGTTCTTTAAAGCGATAGCGGGCTTAAACGTCATACC 1269  
Db 1559 GCTAACACACGGCAAGTTTCGCCCTGGTGAAGAGCGACAGTACGATCTGAAGCTGGCAACG 1618  
Qy 1270 AGTGATATCTCACTGGGTGATGTTGAAACACCACTACAA 1307  
Db 1619 GGCAACATCGCATGACCGACGTCACACGCTTACGA 1656

## RESULT 12

US-10-847-142-10  
; Sequence 10, Application US/10847142  
; Publication No. US20040265442A1  
; GENERAL INFORMATION:  
; APPLICANT: Wei, Zhong-Min  
; APPLICANT: Qiu, Dewen  
; APPLICANT: Remick, Dean  
; TITLE OF INVENTION: TREATMENT OF FRUITS OR VEGETABLES WITH HYPERSENSITIVE  
; TITLE OF INVENTION: RESPONSE ELICITOR TO CONTROL POSTHARVEST DISEASE OR  
; FILE REFERENCE: 21829/197  
; CURRENT APPLICATION NUMBER: US/10/847,142  
; PRIOR FILING DATE: 2004-05-17  
; PRIOR FILING DATE: 2004-198,359  
; PRIOR FILING DATE: 2000-04-19  
; PRIOR APPLICATION NUMBER: 09/835,684  
; PRIOR FILING DATE: 2001-04-16  
; NUMBER OF SEQ ID NOS: 12  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 10  
; LENGTH: 1729  
; TYPE: DNA  
; ORGANISM: Pseudomonas syringae  
US-10-847-142-10

Query Match 11.5%; Score 155.2; DB 20; Length 1729;  
Best Local Similarity 57.1%; Pred. No. 1.7e-40;  
Matches 330; Conservative 0; Mismatches 233; Indels 15; Gaps 2;  
Qy 745 GCGCGTAATCAGACGGTGTGTCATGACACCATACCGTGAAGCGGTGAGGTTTGAT 804  
Db 1079 GCCGGCAAGTCAATGTGGTGAAGACACCATCAAGTCGGCGTGGCGAAGTCTTTGAC 1138  
Qy 805 GGCAAGGACAAACCTTTCACCGCGGTTTCAAGATTAGCGATGCGGCCAGTCTGAAAC 864  
Db 1139 GGCCACGGCGCAACCTTCACTGCGACAAATCTATGGTTAACGGACGAGCGGCGAAAT 1198  
Qy 865 CAGAAACCGCTGTTTATCTGGAAGACGGTGCAGCCTGAAACACGTCACCATGGGCGAC 924  
Db 1199 CAGAAAGCCCATGTTGAGAGCTGGCTGAAGGGCTACGTTGAAGAATGTGAACCTGGGTGAG 1258  
Qy 925 GAGGGCGGATGGTATTCTTTTACG-----GTGATGCCAAATAGACAAT 972  
Db 1259 AACGAGTGTGATGATCTCCACGTTGAAGCGCAAAACGCTCAGGAAGTCACCATTGACAAC 1318  
Qy 973 CTGCACGTCAACACGTTGGGTGAGGACGCGATTACCGTTAAGCCAAACAGCGGGGCAAA 1032  
Db 1319 GTGCATGCCAGAACGTCGCTGAGACCTGATTACGTTCAAGCGGAGGAGGCGGACG 1378  
Qy 1033 AAATCCACGTTGAAATCAATAAGTTCCTTTGAGCACGCCCTCTGACAAAGATCTTCGAC 1092  
Db 1379 GTCACTAATCTGAACATCAAGAACAGCAGTGCCTCAAGAGGTGCAGACGCAAGGTTGTCCAG 1438  
Qy 1093 CTGAATGCCGATACCTACCTGAGGTTGACAACTGAGGCCAAAGACTTTTGTACTTTT 1152  
Db 1439 CTCACGCCCAACACTCACTCTGAAATCGCAAACTTCAAGGCCGACGATTTTCGACGATG 1498  
Qy 1153 GTACGCACTAACGGCGGTCAACAG---GGTAACTGGGATCTGAATCTGAGCCATATCAGC 1209  
Db 1499 GTTTCGCACCAACGGTGCAGACGAGTTTGTATGACATGAGCATCGAGCTGAACGGCATCGAA 1558

Qy 1210 GCAGAAGACGGTAAGTTCTCGTTCTTTAAAGCGATAGCGGGCTTAAACGTCATACC 1269  
Db 1559 GCTAACACACGGCAAGTTTCGCCCTGGTGAAGAGCGACAGTACGATCTGAAGCTGGCAACG 1618  
Qy 1270 AGTGATATCTCACTGGGTGATGTTGAAACACCACTACAA 1307  
Db 1619 GGCAACATCGCATGACCGACGTCACACGCTTACGA 1656

## RESULT 13

US-09-825-414-1  
; Sequence 1, Application US/09825414  
; Patent No. US20020083489A1  
; GENERAL INFORMATION:  
; APPLICANT: Colimer, Alan  
; APPLICANT: Alfano, James R.  
; APPLICANT: Charkowski, Amy O.  
; TITLE OF INVENTION: DNA MOLECULES AND POLYPEPTIDES OF PSEUDOMONAS SYRINGAE  
; FILE REFERENCE: 19603/3243  
; CURRENT APPLICATION NUMBER: US/09/825,414  
; CURRENT FILING DATE: 2001-04-03  
; PRIOR FILING DATE: 2000-04-160  
; PRIOR APPLICATION NUMBER: 60/194,160  
; PRIOR FILING DATE: 2000-04-03  
; PRIOR APPLICATION NUMBER: 60/224,604  
; PRIOR FILING DATE: 2000-08-11  
; PRIOR APPLICATION NUMBER: 60/249,548  
; PRIOR FILING DATE: 2000-11-17  
; NUMBER OF SEQ ID NOS: 91  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 30365  
; TYPE: DNA  
; ORGANISM: Pseudomonas syringae  
; NAME/KEY: unsure  
; FEATURE:  
; LOCATION: (23734)  
; OTHER INFORMATION: n at any position is undefined  
US-09-825-414-1

Query Match 11.5%; Score 155.2; DB 9; Length 30365;  
Best Local Similarity 57.1%; Pred. No. 7.4e-40;  
Matches 330; Conservative 0; Mismatches 233; Indels 15; Gaps 2;  
Qy 745 GCGCGTAATCAGACGGTGTGTCATGACACCATACCGTGAAGCGGTGAGGTTTGAT 804  
Db 21826 GCCGGCAAGTCAATGTGGTGAAGACACCATCAAGTCGGCGTGGCGAAGTCTTTGAC 21885  
Qy 805 GGCAAGGACAAACCTTTCACCGCGGTTTCAAGATTAGCGATGCGGCCAGTCTGAAAC 864  
Db 21886 GGCCACGGCGCAACCTTCACTGCCGCAAAATCTATGGGTAAACGAGAGACGAGGGCGAAAT 21945  
Qy 865 CAGAAACCGCTGTTTATCTGGAAGACGGTGCAGCCTGAAACACGTCACCATGGGCGAC 924  
Db 21946 CAGAGCCCATGTTGAGCTGCGTGAAGGCGCTACGTTGAAGAATGTGAACCTGGGTGAG 22005  
Qy 925 GAGGGCGGATGGTATTCTTTTACG-----GTGATGCCAAATAGACAAT 972  
Db 22006 AACGAGTGTGATGATCTCCACGTTGAAGCGCAAAACGCTCAGGAAGTCACCATTGACAAC 22065  
Qy 973 CTGCACGTCAACACGTTGGGTGAGGACGCGATTACCGTTAAGCCAAACAGCGGGGCAAA 1032  
Db 22066 GTGCATGCCAGAACGTCGCTGAGACCTGATTACGTTAAAGGCGGAGGCGGACG 22125  
Qy 1033 AAATCCACGTTGAAATCAATAAGTTCCTTTGAGCACGCCCTCTGACAAAGATCTTCGAC 1092  
Db 22126 GTCACTAATCTGAACATCAAGAACAGCAGTGCCTCAAGGTGCAGACGAAAGTTGTCCAG 22185  
Qy 1093 CTGAATGCCGATACCTACCTGAGCGTTGACAACTGAGGCCAAAGACTTTTGTACTTTT 1152  
Db 22186 CTCACGCCCAACACTCACTCTGAAATCGCAAACTTCAAGGCCGACGATTTTCGACGATG 22245  
Qy 1153 GTACGCACTAACGGCGGTCAACAG---GGTAACTGGGATCTGAATCTGAGCCATATCAGC 1209

Db 22246 GTTCGACCAACGGTGCAGGAGTGTGATGACATGAGCATCGAGCTGAACGGCATCGAA 22305  
Qy 1210 GCAGAACCGGTAGTCTCGTTCGTTAAAGGATAGCAGGGGCTAAACGTCAATACC 1269  
Db 22306 GCTAACCCAGCGCAAGTTCGCCCTGGTGAAGGACAGTGCATCTGAAAGCTGGCAACG 22365  
Qy 1270 AGTGATATCTCACTGGGTGATGTTGAAAAACCACTACAA 1307  
Db 22366 GGCACATCGGCATGACCGGACGTCACAAACACGCTACGA 22403

## RESULT 14

US-10-893-776A-1  
; Sequence 1, Application US/10893776A  
; Publication No. US20050039232A1  
; GENERAL INFORMATION:  
; APPLICANT: Collmer, Alan  
; APPLICANT: Alfano, James R.  
; APPLICANT: Charkowski, Amy O.  
; TITLE OF INVENTION: DNA MOLECULES AND POLYPEPTIDES OF PSEUDOMONAS SYRINGAE  
; TITLE OF INVENTION: HRP PATHOGENICITY ISLAND AND THEIR USES  
; FILE REFERENCE: 19603/3247  
; CURRENT APPLICATION NUMBER: US/10/893,776A  
; CURRENT FILING DATE: 2004-07-16  
; PRIOR FILING DATE: 60/194,160  
; PRIOR APPLICATION NUMBER: 60/224,604  
; PRIOR FILING DATE: 2000-04-03  
; PRIOR FILING DATE: 2000-08-11  
; PRIOR APPLICATION NUMBER: 60/249,548  
; PRIOR FILING DATE: 2000-11-17  
; PRIOR APPLICATION NUMBER: 09/825,414  
; PRIOR FILING DATE: 2001-04-03  
; NUMBER OF SEQ ID NOS: 91  
; SOFTWARE: PatentIn ver. 2.1

SEQ ID NO 1

LENGTH: 30365

TYPE: DNA

ORGANISM: Pseudomonas syringae

FEATURE:

NAME/KEY: unsure

LOCATION: (29734)

OTHER INFORMATION: n at position 29734 is undefined

FEATURE:

NAME/KEY: unsure

LOCATION: (30237)

OTHER INFORMATION: n at position 30237 is undefined

FEATURE:

NAME/KEY: unsure

LOCATION: (30317)

OTHER INFORMATION: n at position 30317 is undefined

US-10-893-776A-1

Query Match 11.5%; Score 155.2; DB 21; Length 30365;  
Best Local Similarity 57.1%; Pred. No. 7.4e-40;  
Matches 330; Conservative 0; Mismatches 233; Indels 15; Gaps 2;

Qy 745 GCGCTAATCAGCGGTGCTGATGACACCATTAACGCGGATGAGGCTGAGTGTGAT 804  
Db 21826 GCCGGCAAGATCAATGTGGTGAAGACACCATCAAGGTGGCGCTGGCGAAGTCTTTGAC 21885  
Qy 805 GGCAGAGGACAAACCTTCACCGCGGTTCAGAATTAGCGGATGGCGCCAGTCTGAAAC 864  
Db 21886 GGCACGGCCCAACCTTCACTCGGACAAATCTATGGTTACGGACACGAGCGGCAAAAT 21945  
Qy 865 CAGAAACCGCTGTTTATCTGGAAGACGGTCCAGCGCTGAAACACGTCAACATGGCGAC 924  
Db 21946 CAGAAAGCCATGTTGAGCTGGCTGAAGCGCTACGTTGAAGAAATGTGAACCTGGGTGAG 22005  
Qy 925 GACGGGGCGATGGTATTCTATTACG-----GTGATGCCAAATAGACAAT 972  
Db 22006 AACGAGGTGATGGCATCCACGTCAGGAAACCAAAACCGTCAGGAAGTCCACCATTTGACAAC 22065

Qy 973 CTGCACTCACCAACGCTGGTGAGGACGGATTACCGTTAAGCCAAACAGCGCGGCAAA 1032  
Db 22066 GTGCATGCCAGAACGTTCGGTGAAGACCTGATTACGTTCAAGGCGAGGAGCGGACGG 22125  
Qy 1033 AAATCCACCGTTGAAATCACTAACAGTTCCTTCGAGCAGCGCTCTGACAAGATCCTGCAG 1092  
Db 22126 GTCACATAATCTGAACATCAAGAACAGCAGTGCCTCAAGAGTGCAGACGACAAAGGTTGTCCAG 22185  
Qy 1093 CTGAATGCCGATACTAAACCTGAGCGTTGACAAGCTGAAGGCCAAAGACTTTGGTACTTTT 1152  
Db 22186 CTCACCGCCAAACACTCACTTTGAAAATCGAACACTTCAAGGCCGACGATTTCGSCACGATG 22245  
Qy 1153 GTACGCACTAAACGGCGGTCAACAG---GGTAACTGGGATCTGAATCTGAGCCATATCAGC 1209  
Db 22246 GTTCGACCAACCGGTGGCAAGCAGTTTGTGATGACATGAGCATCGAGCTGAACGGCATCGAA 22305  
Qy 1210 GCAGAACCGGTAAAGTTCGTTCTGTTTAAAGCGATAGCGGGGTAAACGTCATACC 1269  
Db 22306 GCTAACCCAGCGCAAGTTCGCCCTGGTGAAGGACGACAGTGCATCTGGAAGCTGGCAACG 22365  
Qy 1270 AGTGATATCTCACTGGGTGATGTTGAAACCACTACAA 1307  
Db 22366 GGCACATCGGCATGACCGGACGTCACAAACACGCTACGA 22403

## RESULT 15

US-10-156-761-6360  
; Sequence 6360, Application US/10156761  
; Publication No. US20030119018A1  
; GENERAL INFORMATION:

APPLICANT: OMURA, SATOSHI

APPLICANT: IKEDA, HARUO

APPLICANT: ISHIKAWA, JUN

APPLICANT: HORIKAWA, HIROSHI

APPLICANT: SHIBA, TADAYOSHI

APPLICANT: SAKAKI, YOSHIYUKI

APPLICANT: HATTORI, MASAHIRA

TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES

FILE REFERENCE: 249-262

CURRENT APPLICATION NUMBER: US/10/156,761

CURRENT FILING DATE: 2002-05-29

PRIOR APPLICATION NUMBER: JP 2001-204089

PRIOR FILING DATE: 2001-05-30

PRIOR APPLICATION NUMBER: JP 2001-272697

PRIOR FILING DATE: 2001-08-02

NUMBER OF SEQ ID NOS: 15109

SEQ ID NO 6360

LENGTH: 828

TYPE: DNA

ORGANISM: Streptomyces avermitilis

FEATURE:

NAME/KEY: CDS

LOCATION: (1)..(828)

US-10-156-761-6360

Query Match 5.3%; Score 71.2; DB 15; Length 828;  
Best Local Similarity 51.6%; Pred. No. 1.8e-12;  
Matches 191; Conservative 0; Mismatches 173; Indels 6; Gaps 1;

Qy 798 GTTGTATGTCAAAGGACAAACCTTCACCGCCCGTTTCAGAAATTAGCGATGGCGGCCAGTC 857  
Db 204 GTACGACGCGCAAGCTGAAGAAGTCTCCGGAGCGGGACCTCGGACGCGCGACCGATC 263  
Qy 858 TGAATAACGAGAAACCGCTGTTTATCTGGAAGACGGTGCAGCTGTAATAAAGTCAACAT 917  
Db 264 CGAGGACACAGGCGCGCTCTTCGAGCTCGAGACGGTGGCGTCTCGAAGACGCTGATCAT 323  
Qy 918 GCGCGACGACGCGGGGATGTTTATCTTACCGTGTATGCCAAATAGACAATCTGCA 977  
Db 324 CGGTACCCCGCGCGGACGCGGTCCAATGCTGGGAGTTGACGCTCGAAGACGTTGTG 383  
Qy 978 CGTCAACAAAGTGGGTGAGGACGCGATTAACCGTAAAGCCAAACAGCGCGGGCAAAAATC 1037

Db	384	GTGGCTGGACGTCGGCGGAGGACGGCGGAGCTTCAAGAGCAAGTCCTCGTCGGCGACGTA	443
Qy	1038	CCAGGTTGAATCACTAACAGTTCTTCGAGCAGCCCTCTGACAAGATCCTGCAAGCTGAA	1097
Db	444	CAAGG-----TGATCGGCGGCGCGGAAGTCGGCCTCCGACAAGGTGCTCCAGTTCAA	497
Qy	1098	TGCCGATACTAACTGAGCGTTGACACGTAAGGCCCAAGACTTTGGTACTTTGTACG	1157
Db	498	CGGGGCGGCAACGCTGACCCGTGACCGGCTTCAGGTGGAGAACTTCGGCAAGCTGGTGCG	557
Qy	1158	CACTAACGGC	1167
Db	558	CTCCTGCGGC	567

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